#### WATTENBERG DISPOSAL, LLC

DENVER ENERGY CENTER

1675 BROADWAY, 28TH FLOOR

DENVER, COLORADO 80202-4628

TELEPHONE (303) 825-4822

FACSIMILE (303) 825-4825

WWW.KPK.COM

September 8, 2015

Gary Wang
Technical Enforcement Program – UIC
U.S. Environmental Protection Agency Region 8
1595 Wynkoop Street, Mail code 8ENF-W
Denver, CO 80202-1129

**RE:** Request for New Additions for Water Sources

Class I Non-Hazardous Waste Disposal Well Permit No. CO10938-02115

Wattenberg Disposal, LLC

Dear Mr. Wang;

Wattenberg Disposal, LLC (Wattenberg) is submitting water source analyses from facilities with new formation Class II fluids that will be disposed of at the Suckla Farms #1 disposal well. These facilities include:

#### Facility

- 1) WOOLLEY #1, 2
- 2) MAHONEY #1, 2, MAHONEY-PERRIN #1, 2
- 3) WALSH #2, 3, 4, 5

Location

NENE S34 T2N R68W

NENE S20 T2N R67W

**SWSW S24 T2N R68W** 

The three (3) facilities listed above are exploration and production well site tank batteries owned and operated by K.P. Kauffman Company, Inc. The waste fluid being disposed of is produced water, which has been separated from the comingled liquid stream produced from each facility's associated wellhead(s).

Pursuant to Permit No. CO10938-02115 Part II, Section D.5.a.(ii), Wattenberg requests approval for disposal of fluids from the new source waters listed above. A water analysis has been attached for each facility which consists of total dissolved solids, pH, specific gravity, and specific conductivity.

If you have any questions or comments, please contact me at (303) 825-4822 or at slaramesa@kpk.com.

Sincerely,

Wattenberg Disposal, LLC

Susana Lara-Mesa

Vice President of Engineering

Enclosures: New Source Waters Analyses

cc: Don Breffle - U.S. Environmental Protection Agency Region 8

KPK Files



Test Report

# CANALYTICS

# LABORATORY

September 8, 2015

Client:

K.P. Kauffman Company, Inc.

Project:

Wattenberg New Sources

Lab ID:

3859

Date Samples Received:

9/4/2015

Number of Samples:

3

Sample Condition:

Samples arrived intact and in appropriate sample containers

Sample Temperature:

Within acceptable range of 2-6° C, or as specified in EPA Method

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

Christopher Dieken

Chu-Th

Quality Assurance Manager

Todd Rhea

Laboratory Manager

## Chain of Custody

# CANALYTICS

# LABORATORY

Chair of Custody Fo

	LABOR  4130 Clydesdale Parkwey Loveland CO 80538 Phone: (970			(407-6975 Fax: (970) 6					(0)			R			Y icsI ab com	
	CLIENT INFORMAT		ANALYSIS INFORMATION (Select souts on by Christing Box on currenponding schople fine)													
Project: Wattenstate NEW Sources Send Report To: Sust Lara-MESA (SLARAMESA Q(P) Send Invoice To: Sust Lara-MESA Phone/Emsil: 303, 825, 4822 Address: 1675 GROADWAY, 575 2800 DENVIR. CD SOLET 80202			coff Congressiess	CATAL DAMES OF	2		olatics - Full Lot of PASSAS)	ABST PA82701	落龙 Gresse (世界等第11年1664)	KPULPAIST	CLP RURA-S Agents covered and a	apor-Soul Vapor BTEX (EPA 16418)	Vapor Cinissions B.H.N. TVPH (TO-14)	ph (55.10)	SPECIFIC CONDUCTIONS	
1 at 11)	Sample Name	Sampling Date	Vamp's	H	H.			FE	3	×.	1 2	Qt/	de/	E	SS	
3	MAHONEY - PEORIN 1,2. WALSH 2, 3, 4,5	9-1-15	1 5											X		
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	Turnaround Time (Business Da TAI begins when umple it received by extent formal (5-10 Days) Day (25%) Bush malyses requires at Day (50%) H possible please inform Day (100%)	rettes n estra charge restsativities in	Retioque R. ouipae	K	P. I	W.	11	Rev	cord (	of Cu-	tods			1	S = 40	
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Lab 1D # 3859

eAnalytics Laboratory 4130 Clydesdale Parkway Laveland CO 80538 (020) 662 8024

Page\_\_\_oi\_\_\_

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538

Fest Report

## Water Sample Analysis

September 8, 2015

CANALYTICS

# LABORATORY

Client:

K.P. Kauffman Company, Inc.

Lab ID:

3859

Project:

Wattenberg New Sources

Analysis:

рΗ

Specific Conductance Total Dissolved Solids

Specific Gravity

Method:

EPA150.1

EPA120.1

EPA160.1

ASTMD1298

Sample Name	pH su	EC mmhos/cm	TDS mg/L	Specific Gravity mg/L	Date Sampled	Date Analyzed	Lab	ID
Woolley 1,2	7.2	58.5	37520	1.038	09/01/15	09/04/15	3859	1
Mahoney-Perrin 1,2	7.3	69.9	44805	1.044	09/01/15	09/04/15	3859	2
Walsh 2,3,4,5	7.1	70.4	45113	1.045	09/01/15	09/04/15	3859	3

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538

#### WATTENBERG DISPOSAL, LLC

DENVER ENERGY CENTER

1675 BROADWAY, 28TH FLOOR

DENVER, COLORADO 80202-4628

TELEPHONE (303) 825-4822

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September 8, 2015

Gary Wang
Technical Enforcement Program – UIC
U.S. Environmental Protection Agency Region 8
1595 Wynkoop Street, Mail code 8ENF-W
Denver, CO 80202-1129

**RE:** Request for New Additions for Water Sources

Class I Non-Hazardous Waste Disposal Well Permit No. CO10938-02115

Wattenberg Disposal, LLC

Dear Mr. Wang;

Wattenberg Disposal, LLC (Wattenberg) is submitting water source analyses from facilities with new formation Class II fluids that will be disposed of at the Suckla Farms #1 disposal well. These facilities include:

Facility Table "	Location NWSW S23 T1N R67W
1) TANG #1 2) DACANO #1-3	SENE S1 T1N R68W
3) FREDERICK #1, 4	SWSE S24 T2N R68W
4) PARKER #1 & 2	NWSE S19 T2N R66W
5) LAURIDSON #1A & 2A	NESE S18 TIN R67W
6) COSSLETT #1, 2	NENE S2 T1N R68W SWNW S16 T2N R67W
<ul><li>7) DECHANT STATE #1-7</li><li>8) DECHANT STATE (CODELL) #1-7</li></ul>	SWNW S16 T2N R67W
9) MILLARD #43-30	NESE S30 T2N R66W
10) NEFF #1 & 2	NESE S19 T2N R66W
11) CAMENISCH #1 SX	SWSW S2 T1N R67W NESE S34 T2N R66W
12) MCCONAHAY #33-34 13) BECKY #1-5	NESE 534 12N R00 W NENW S6 T1N R68W

The 13 facilities listed above are exploration and production well site tank batteries owned and operated by K.P. Kauffman Company, Inc. The waste fluid being disposed of is produced water, which has been separated from the comingled liquid stream produced from each facility's associated wellhead(s).



Pursuant to Permit No. CO10938-02115 Part II, Section D.5.a.(ii), Wattenberg requests approval for disposal of fluids from the new source waters listed above. A water analysis has been attached for each facility which consists of total dissolved solids, pH, specific gravity, and specific conductivity.

If you have any questions or comments, please contact me at (303) 825-4822 or at slaramesa@kpk.com.

Sincerely,

Wattenberg Disposal, LLC

Susana Lara-Mesa

Vice President of Engineering

Enclosures: New Source Waters Analyses

cc: Don Breffle - U.S. Environmental Protection Agency Region 8

**KPK Files** 

# Test Report

# CANALYTICS

# LABORATORY

September 3, 2015

Client:

K.P. Kauffman Company, Inc.

Project:

Wattenberg Disposal New Sources

Lab ID:

3837

Date Samples Received:

9/1/2015

Number of Samples:

13

Sample Condition:

Samples arrived intact and in appropriate sample containers

Sample Temperature:

Within acceptable range of 2-6° C, or as specified in EPA Method

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

Christopher Dieken

Quality Assurance Manager

Chu-Th

Todd Rhea

Laboratory Manager

Company:

Sampler: MAN

TANG # 1

DACANO #1-3

FREDENCIC #1, 4

PARKER # 1:2

COSSLETT # 1,2

9 MULLAND BYS-30

CAMENISCIA #1

BECKY 415

McCONAHAY #35-54

NEFF KIZ

LAURIDSON 14: 24

DECHANT STATE #1-7

SECHANT STRTE (CODEW) #1-7

Phone/Email

Address

Lab (D

1

8

3

Cong

-

10

11

19

3

Comments:

KNOP

303-825-4822

Sample Name

Chain of Circlody I

## Chain of Custody

# CANALYTICS

## LABORATORY

CLIENT INFORMATION

Project WATTENBERLY DUPOSAL NEW SOURCES
Project Manager: Susana LARA-MESA

1675 Broadway St #2800

Sampling Date/Time

9:02 0

II:AL O

10:15 0

1:45-0

9:29 0

10 4519 -

10:550

12.0 mg

12:42 -0

2:08 - 0

11:35 Om

12:15 an (

Denver, CO 80202

K.P. Kauffman Company, Inc.

ANALYSIS INFORMATION
Order analysis to sheeking but on corresponding paragraph lines

Other Analysis

9	Normal (S-10 Days)	und Time (Business Days)	Record of Custod's	Day 1/1/15
2 Day (25%) 2 Day (50%)		Rush analysis requires an extra charge. It possible please inform cANALYTICS advance for rush analysis.	Company K.P. Kausermans Co	1-9:00
	Colorado OPS	Project: Yes / No.	Company	Forme
	For les Received Intact: ed Within Temperati	SER BRIDGE (2.6%)	Relinquished by	Data Tree
	e Preservative:	loe Acal Other	Received by Company	10000

wo # 3837

eANALYTICS: Environmental testing made Easy

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eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538

# CANALYTICS

# LABORATORY

Client:

K.P. Kauffman Company, Inc.

Lab ID:

3682

Project:

Wattenberg Disposal New Sources

Analysis:

рΗ

Method:

EPA150.1

Specific Conductance

EPA120.1

Total Dissolved Solids

EPA160.1

Specific Gravity

ASTMD1298

Sample Name	рН	EC	TDS	Specific Gravity	Date Sampled	Date Analyzed	Lab ID	,
	su	mmhos/cm	mg/L	mg/L				100
Tang #1	6.4	37.3	23965	1.024	08/31/15	09/02/15	3682 1	
Dacano #1-3	6.3	36.1	23085	1.023	08/31/15	09/02/15	3682 2	
Frederick #1, 4	6.5	20.9	13601	1.013	08/31/15	09/02/15	3682 3	j
Parker #1&2	6.4	33.5	21355	1.021	08/31/15	09/02/15	3682 4	ļ
Lauridson 1A&2A	6.7	41.0	26948	1.026	08/31/15	09/02/15	3682 5	j
Cosslett #1, 2	6.4	38.6	24941	1.025	08/31/15	09/02/15	3837 6	í
Dechant State #1-7	6.3	37.6	24151	1.023	08/31/15	09/02/15	3837 7	!
Dechant State (Codell) #1-7	6.1	18.3	11824	1.012	08/31/15	09/02/15	3837 8	;
Millard #43-30	6.5	37.8	24034	1.024	08/31/15	09/02/15	3837 9	)
Neff #1&2	6.2	35.4	22978	1.023	08/31/15	09/02/15	3837 10	)
Camenisch #1	6.7	31.7	20399	1.019	08/31/15	09/02/15	3837 11	Ĺ
McConahay #33-34	7.2	40.0	25778	1.026	08/31/15	09/02/15	3837 12	2
Becky #1,5	8.3	19.2	12414	1.012	08/31/15	09/02/15	3837 13	3

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538

Page 3 of 3



Dedicated to protecting and improving the health and environment of the people of Colorado

September 29, 2015

RECEIVED

OCT 06 2015

Office of Enforcement, Compliance

and Environmental Justice (Water)

Mr. Arturo Palomares, Director United States Environmental Protection Agency, Region 8 Water Technical Enforcement Program Office of Enforcement, Compliance and Environmental Justice 1595 Wynkoop Street

Denver, CO 80202-8917

CO 10938-02115

Ms. Susana Lara-Mesa Vice President of Engineering K.P. Kauffman Company, Inc. World Trade Center 1675 Broadway, 28th Floor Denver, CO 80202-4628

RE:

Notification of Approval to Inject Class II Produced Water

Wattenberg Disposal Facility

SW/WLD/WTB 1.1

Ms. Lara-Mesa,

The Colorado Department of Public Health and Environment (the "Department") Hazardous Materials and Waste Management Division (the "Division") received the following notification to inject Class II produced water from sixteen (16) production tank batteries owned by K.P. Kauffman Company, Inc. (the "Notification") at the Wattenberg Disposal Facility (the "Facility") located at 4468 Weld County Road, Weld County, Colorado.

Untitled Letter (EPA UIC Class II Injection Well Approval for Produced Water Injection from 16 Production Tank Batteries). Prepared by: U.S.E.P.A., Region 8. Document dated: September 21, 2015. Document received: September 25, 2015.

The Division reviewed the above referenced Notification. Thank you for this update regarding Facility operations.

Please note that the State of Colorado permitting contact for this site has changed. All correspondence for the Facility can be sent to:

> Mr. Eric Jacobs, P.G. Colorado Department of Public Health and Environment HMWMD-B2 4300 Cherry Creek Drive South Denver, Colorado 80246-1530

> > eric.jacobs@state.co.us





EPA Notification for K.P. Kauffman Company, Inc. September 29, 2015 Page 2 of 2

We appreciate this Notification and ask the Facility to forward the documentation referenced in the Notification to the Division (via e-mail is possible).

Note that the Department is authorized to bill for its review of technical submittals pursuant to Section 1.7 of the Regulations Pertaining to Solid Waste Sites and Facilities (6 CCR 1007-2). An invoice for the Division's review of the above referenced documents will be transmitted under separate cover. Our fees and billing ceilings may be viewed online at <a href="https://www.colorado.gov/pacific/cdphe/solid-waste-regulations">https://www.colorado.gov/pacific/cdphe/solid-waste-regulations</a>.

Should you have any questions regarding determination made herein contact Eric Jacobs at 303-692-3430 or by email at <a href="mailto:eric.jacobs@state.co.us">eric.jacobs@state.co.us</a>.

Sincerely,

Eric K. Jacobs, P.G.

Solid Waste Permitting Unit

Hazardous Materials and Waste Management Division

ec: Gary Wang, U.S.E.P.A. Region 8

H:\Working File\Projects\County Weld\Wattenberg Disposal\Correspondence\150929 EPA Response FINAL.docx



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

1595 Wynkoop Street DENVER, CO 80202-1129 Phone 800-227-8917 http://www.epa.gov/region08

MAR 2 0 2015

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2599-4913 RETURN RECEIPT REQUESTED

Ms. Susana Lara-Mesa Engineering Project Manager K.P. Kauffman Company, Inc. 1675 Broadway, Suite 2800 Denver, CO 80202-4825

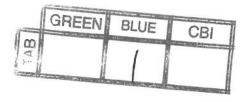
Re:

Underground Injection Control (UIC) Approval of New Source Suckla Farms #1 Class I Injection Well EPA Permit #CO10938-02115 Weld County, Colorado

#### Dear Ms. Lara-Mesa:

The Environmental Protection Agency (EPA) has reviewed the emails and attached fluid analyses, dated February 25, 2015 and March 17, 2015, wherein Wattenberg Disposal, LLC, as a part of K.P. Kauffman Company, Inc., requested authorization to inject produced brine fluid from eight new sources, Noel #3-18, Koester #3-33-3, Pace Connelly #3&8, Briggs #1, UPRR Pan Am N #4, Bauer/Eiberger, Ocoma and Jack C. Noel. Your attachments included the required laboratory analyses for total dissolved solids, pH, specific conductance, and specific gravity for these sources. After review of these analyses, and pursuant to the above-referenced permit at Part II(C)(6)(c), EPA approves of this new source for injection into the above-referenced injection.

Failure to comply with UIC regulations found at Title 40 of the Code of Federal Regulations, Parts 144 and 146 (40 C.F.R. Parts 144 and 146) constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by EPA, as codified at 40 C.F.R. Part 22.



If you have any questions concerning this letter, you may contact Gary Wang at (303) 312-6469. Please direct all correspondence to the attention of Gary Wang at Mail Code 8ENF-UFO.

Sincerely,

Arturo Palomares, Director

Water Technical Enforcement Program
Office of Enforcement, Compliance

and Environmental Justice

cc: Caren Johannes

Solid Waste and Materials Management Unit
Hazardous Materials & Waste Management Division HMWMD-B2
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, Colorado 80246





U.S. Environmental Protection Agency
Underground Injection Control Program, 8ENF-T
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 4/24/2015

OPERATOR (only if different): B-U Deca  REPRESENTATIVE(S):  PRE-INSPECTION REVIEW  Wattenberg Disposal, LLC  Well Name: Suckla Farms #1 (Wattenberg) Well Type: Non-Hazardous Waste Disposal (11) Operating Status: UC (UNDER CONSTRUCTION) as of 12/1/2014 Oil Field: Spindle Location: SENW S10 TIN R67W Indian Country: Last Inspection: 3/26/2013 Allowable Inj Pressure: 3700 / Last MIT: Pass 5/14/2014 Annulus Pressure From Last MIT: 950  BLACK = POSSIBLE VIOLATION  INSPECTION TYPE: Construction / Workover Plugging Routine Witness MIT Date Initials  OBSERVED VALUES: Tubing Gauge: Yes Pressure: U:200 /L: psig Gauge Owner: PPA No Gauge Range: Operator Psig Gauge Owner: PEPA	e, Don Date:	Date: 4/23/2015
PRE-INSPECTION REVIEW	g, Gary Time:	Time: 4:35 (aph / pm
Wattenberg Disposal, LLC  Well Name: Suckla Farms #1 (Wattenberg) Well Type: Non-Hazardous Waste Disposal (11) Operating Status: UC (UNDER CONSTRUCTION) as of 12/1/2014 Oil Field: Spindle Location: SENW S10 T1N R67W Indian Country: Last Inspection: 3/26/2013 Allowable Inj Pressure: 3700 / Last MIT: Pass 5/14/2014 Annulus Pressure From Last MIT: 950  BLACK = POSSIBLE VIOLATION  INSPECTION TYPE: Construction / Workover Plugging Routine Witness MIT Date Finitials  OBSERVED VALUES: OF 230 15: 0-2000 psig Gauge Owner: PAAnnulus Gauge: Yes Pressure: 120 15 600 psig Gauge Owner: PAAnnulus Gauge: Yes Pressure: 120 15 600 psig Gauge Owner: PAAnnulus Gauge: Yes Pressure: 100 psig Gauge Owner: PAAnnulus Gauge: PAAnnulus Gauge: Yes Pressure: PAAnnulus Gauge: PAAnnulus Gauge: PAAnnulus PRESSURE PAANNULUS PAANNULU	Bill Dean	Dean
Wattenberg Disposal, LLC  Well Name: Suckla Farms #1 (Wattenberg) Well Type: Non-Hazardous Waste Disposal (11) Operating Status: UC (UNDER CONSTRUCTION) as of 12/1/2014 Oil Field: Spindle Location: SENW S10 T1N R67W Indian Country:  Last Inspection: 3/26/2013 Allowable Inj Pressure: 3700 / Annulus Pressure From Last MIT: 950  BLACK = POSSIBLE VIOLATION  INSPECTION TYPE: Construction / Workover Plugging Routine Witness MIT Date Fost-Closure Witness MIT Date Fost-Closure  OBSERVED VALUES: OF 250 f5: 0 - 2-20 Initials  OBSERVED VALUES: OF 250 f5: 0 - 2-20 Psig Gauge Owner: PA No Gauge Range: Operator Psig Gauge Owner: PA Pump Gauge: Yes Pressure: 100 psig Gauge Owner: PA No Gauge Range: Operator Psig Gauge Owner: PA	The state of the s	
Well Name: Suckla Farms #1 (Wattenberg) Well Type: Non-Hazardous Waste Disposal (II) Operating Status: UC (UNDER CONSTRUCTION) as of 12/1/2014 Oil Field: Spindle Location: SENW S10 T1N R67W Indian Country: Last Inspection: 3/26/2013 Last MIT: Pass 5/14/2014 Annulus Pressure: 3700 / Annulus Pressure From Last MIT: 950  INSPECTION TYPE: Construction / Workover Select One) Plugging Witness MIT Post-Closure Witness MIT Date Gauge Routine Witness MIT Date Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA No Gauge Range: 1200 / L: psig Gauge Owner: EPA	PRE-INSPECTION REVIEW	SPECTION REVIEW
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Last MIT:   Pass 5/14/2014   Annulus Pressure From Last MIT: 950	azardous Waste Disposal (11)  NDER CONSTRUCTION) as of 12/1/2014  S10 T1N R67W	e Disposal (11) RUCTION) as of 12/1/2014
INSPECTION TYPE: Construction / Workover Response to Complaint ICIS PAPETER (Select One)  Plugging Routine Witness MIT  OF 150 15: 6-200 Initials  OBSERVED VALUES:  Tubing Gauge: Yes Pressure: U:200 / L: psig Gauge Owner: PPA  No Gauge Range: Pressure: 120 95 psig Gauge Owner: PPA  No Gauge Range: Circle Chart psig Gauge Owner: PPA  Bradenhead Gauge: Yes Pressure: 100 psig Gauge Owner: PPA  No Gauge Range: Pressure: psig Gauge Owner: PPA  No Gauge Range: PPA  No Gauge Range: PPA  No Gauge Range: PPA  Pump Gauge: Yes Pressure: psig Gauge Owner: PPA  Pump Gauge: Perssure: psig Gauge Owner: PPA  Pump Gauge: PPA  Possure: psig Gauge Owner: PPA  Pump Gauge: PPA  Possure: psig Gauge Owner: PPA	in the state of th	The waste my 1 result at
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Annulus Gauge:  Yes Pressure:  No Gauge Range:  Yes Pressure:  No Gauge Range:  Pressure:  No Gauge Range:  Pressure:  Pump Gauge:  Yes Pressure:  Pump Gauge:  Yes Pressure:  P	Gauge Range: O 5000 psig	ge: Operator
Pump Gauge:  Yes Pressure:  Press	Pressure: 120 45 Ep A gauge Own	120 45 EPA Gauge Owner: EPA
Pump Gauge: Yes Pressure.	11055410.	The state of the s
140 Stage Kange.	Pressure:psig Gauge Owr Gauge Range:psig	puig
Operating Status: Active Not Injecting Plugged and Abandoned (Select One) Being Reworked Production Under Construction		
Date		

# Inspection Report For Well: CO10938 - 02115 (PAGE 2)

PHOTOGRAPHS:	Yes List No	of photos taken:  1 Bradenhead gazze  3 circle churt	2 willhead 4 EsA garge a	garge n analis
with with	2 peops	erved during inspection:	pressure is about	470 psi
υγ	erator cell	970-371-4970		
GPS: GPS File ID: _	or of the passes			
	N			
Signature of EPA Inspector	or(s):	Compliance Staff	Hard Copy Filing	
1 180 1 800	(GHEEN)	Page 2 of 2	1,7	SINE SEL

## NOTICE OF INSPECTION



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VIII, 999 18TH STREET - SUITE 500 DENVER, COLORADO 80202-2405

Date: 4/23/15 Hour: 9:53	Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).
Firm Name:	Wattenberg Disposal
Firm Address:	Denver, Co

#### REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Inspector's Name & Title (Print)

Gay wing

Inspector's Signature

Original - Regional Office Copy Yellow Copy - Operator Copy

### **U.S. Environmental Protection Agency** Region 8

## **UIC PHOTOGRAPHIC LOG**

**Facility Location:** 

Wattenberg Disposal

Photographer:

Camera:

Taken: 4/24/2015

1 of 5

Photo No.

**Dates Photographs Were** 

Time: 10:14

**Direction Photo Taken:** 

East

**Photo Description:** 

Wattenberg Disposal facility and well information



## **U.S. Environmental Protection Agency**

Region 8

**UIC PHOTOGRAPHIC LOG** 

**Facility Location:** 

Wattenberg Disposal

Photographer:

Camera:

**Dates Photographs Were** Taken:

4/24/2015

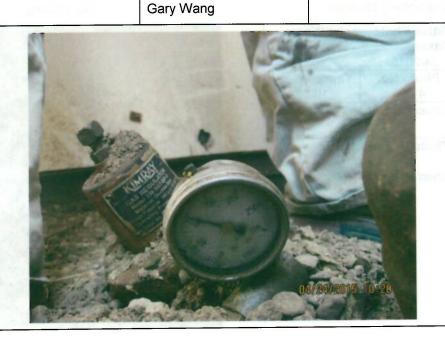
Photo No. 2 of 5

Time: 10:20

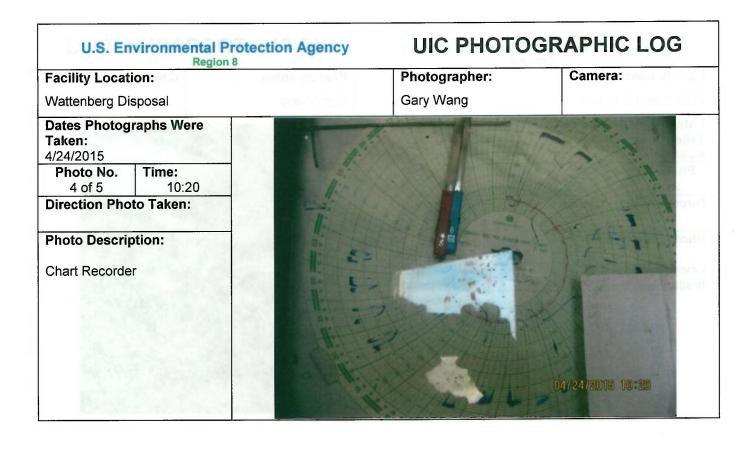
**Direction Photo Taken:** 

**Photo Description:** 

Operator's gauge in bradenhead reads ~100 psi.



## **UIC PHOTOGRAPHIC LOG** U.S. Environmental Protection Agency Region 8 **Facility Location:** Photographer: Camera: Gary Wang Wattenberg Disposal **Dates Photographs Were** Taken: 4/24/2015 Photo No. Time: 10:20 3 of 5 **Direction Photo Taken: Photo Description:** Tubing pressure reading ~200 psi. Well was not injecting during inspection



# **UIC PHOTOGRAPHIC LOG** U.S. Environmental Protection Agency Region 8 Photographer: **Facility Location:** Camera: Wattenberg Disposal Gary Wang **Dates Photographs Were** Taken: 4/24/2015 Photo No. Time: 10:23 5 of 5 **Direction Photo Taken: Photo Description:** EPA's gauge in annulus reads ~95 psi.



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

SEP 21 2015

Ref: 8ENF-UFO

<u>CERTIFIED MAIL 7009-3410-0000-2600-8534</u> <u>RETURN RECEIPT REQUESTED</u>

Ms. Susana Lara-Mesa Engineering Project Manager K.P. Kauffman Company, Inc. 1675 Broadway, Suite 2800 Denver, CO 80202-4825

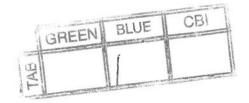
Re:

Underground Injection Control (UIC) Approval of New Source Suckla Farms #1 Class I Injection Well EPA Permit #CO10938-02115 Weld County, Colorado

Dear Ms. Lara-Mesa:

The Environmental Protection Agency (EPA) has reviewed the emails and attached fluid analyses, dated September 8, 2015, wherein Wattenberg Disposal, LLC, as a part of K.P. Kauffman Company, Inc., requested authorization to inject Class II produced water from sixteen production tank batteries owned and operated by K.P. Kauffman Company, Inc. Your attachments included the required laboratory analyses for total dissolved solids, pH, specific conductance, and specific gravity for these sources. After review of these analyses, and pursuant to the above-referenced permit at Part II(C)(6)(c), the EPA approves of this new source for injection into the above-referenced injection.

Failure to comply with UIC regulations found at Title 40 of the Code of Federal Regulations, Parts 144 and 146 (40 C.F.R. Parts 144 and 146) constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.



If you have any questions concerning this letter, you may contact Gary Wang at (303) 312-6469. Please direct all correspondence to the attention of Gary Wang at Mail Code 8ENF-UFO.

Sincerely,

Arturo Palomares, Director

Water Technical Enforcement Program
Office of Enforcement, Compliance

and Environmental Justice

cc: Caren Johannes

Solid Waste and Materials Management Unit Hazardous Materials & Waste Management Division HMWMD-B2 Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, Colorado 80246



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

1595 Wynkoop Street DENVER, CO 80202-1129 Phone 800-227-8917 http://www.epa.gov/region08

JUN 0-9 2015

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2600-8862 RETURN RECEIPT REQUESTED

Ms. Susana Lara-Mesa Engineering Project Manager K.P. Kauffman Company, Inc. 1675 Broadway, Suite 2800 Denver, CO 80202-4825

Re: Underground Injection Control (UIC)
Approval of New Source
Suckla Farms #1 Class I Injection Well
EPA Permit #CO10938-02115
Weld County, Colorado

Dear Ms. Lara-Mesa:

The Environmental Protection Agency (EPA) has reviewed the emails and associated fluid analyses, dated May 12, 2015 and June 4, 2015, wherein Wattenberg Disposal, LLC, as a part of K.P. Kauffman Company, Inc., requested authorization to inject water from the Roggen to Lochbuie hydro-test location owned and operated by DCP Midstream, LLC. Your attachments included the required laboratory analyses for total dissolved solids, pH, specific conductance, and specific gravity for these sources. After review of these analyses, and pursuant to the above-referenced permit at Part II(C)(6)(c), the EPA approves of this new source for injection into the above-referenced injection.

Failure to comply with UIC regulations found at Title 40 of the Code of Federal Regulations, Parts 144 and 146 (40 C.F.R. Parts 144 and 146) constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.



If you have any questions concerning this letter, you may contact Gary Wang at (303) 312-6469. Please direct all correspondence to the attention of Gary Wang at Mail Code 8ENF-UFO.

Sincerely, Dudul Will by

Arturo Palomares, Director Water Technical Enforcement Program Office of Enforcement, Compliance and Environmental Justice

cc: Caren Johannes

Solid Waste and Materials Management Unit Hazardous Materials & Waste Management Division HMWMD-B2 Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, Colorado 80246

#### WATTENBERG DISPOSAL, LLC

WORLD TRADE CENTER

1675 BROADWAY, 28TH FLOOR

DENVER, COLORADO 80202-4628

TELEPHONE (303) 825-4822

FACSIMILE (303) 825-4825

WWW.KPK.COM

May 12, 2015

Linda Bowling
Technical Enforcement Program – UIC
U.S. Environmental Protection Agency Region 8
1595 Wynkoop Street, Mail code 8ENF-W
Denver, CO 80202-1129

RE: Wattenberg Disposal, LLC

Class I Non-Hazardous Waste Disposal Well Permit No. CO10938-02115

Dear Ms. Bowling;

Wattenberg Disposal, LLC is submitting water source analyses from the Roggen to Lochbuie hydro-test location owned and operated by DCP Midstream, LLC. The water from this location is new formation Class II fluids that will be disposed of at the Suckla Farms #1 disposal well.

The Roggen to Lochbuie hydro-test location holds 56,000 gallons of hydro-test water that is stored in four (4) separate holding tanks located just north of the intersection of Weld County Road 18 and Weld County Road 63.

Pursuant to Permit No. CO10938-02115 Section 5.a.(ii), Wattenberg Disposal, LLC requests approval for disposal of fluids from the Roggen to Lochbuie hydro-test location. A water analysis has been attached for each of the four (4) holding tanks, which consists of total dissolved solids, pH, specific gravity, and specific conductivity.

If you have any questions or comments, please contact me at (303) 825-4822 or at slaramesa@kpk.com.

Sincerely,

Wattenberg Disposal, LLC

GREEN BLUE CBI

Susana Lara-Mesa Vice President of Engineering

Enclosures: New Source Waters Analyses

cc: KPK files

Ft. Collins, Colorado

LIMS Version: 6.760

Page 1 of 1

Friday, May 01, 2015

Branden Hayes DCP Midstream, LP 3026 4th Avenue Greeley, CO 80631

Re: ALS Workorder: 1504587

Project Name: Roggen to Lochbuie Hydro-Test

Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analyses:

GC/MS Volatiles
Ignitability
Inorganics
Total Extractable Petroleum Hydrocarbons (Diesel)
Total Volatile Petroleum Hydrocarbons (Gasoline)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sinderely,

Amy R. Wolf

Project Manager

ADDRESS 225 Commerce Drive, Fort Collins, Colorado, USA 80524 | PHONE +1 970 490 1511 | FAX +1 970 490 1522 ALS GROUP USA, CORP. Part of the ALS Laboratory Group An ALS Limited Company

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins											
Accreditation Body	License or Certification Number										
Alaska (AK)	UST-086										
Alaska (AK)	CO01099										
Arizona (AZ)	AZ0742										
California (CA)	06251CA										
Colorado (CO)	CO01099										
Connecticut (CT)	PH-0232										
Florida (FL)	E87914										
Idaho (ID)	CO01099										
Kansas (KS)	E-10381										
Kentucky (KY)	90137										
L-A-B (DoD ELAP/ISO 170250)	L2257										
Maryland (MD)	285										
Missouri (MO)	175										
Nebraska(NE)	NE-OS-24-13										
Nevada (NV)	CO000782008A										
New Jersey (NJ)	CO003										
New York (NY)	12036										
North Dakota (ND)	R-057										
Oklahoma (OK)	1301										
Pennsylvania (PA)	68-03116										
Tennessee (TN)	2976										
Texas (TX)	T104704241										
Utah (UT)	CO01099										
Washington (WA)	C1280										



## 1504587

#### GC/MS Volatiles:

The sample was analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

#### GRO:

The sample was analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C6 to C10

All acceptance criteria were met.

#### DRO:

The sample was analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

### Ignitability:

The sample was prepared and analyzed based on SW-846, 3<sup>rd</sup> Edition procedures; SW-1010; and the current revision of SOP 629.

All acceptance criteria were met.

#### Inorganics:

The sample was analyzed following Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	SOP#
рН	SM4500-H <sup>+</sup> B	1126
TDS	SM2540C	1101
TSS	SM2540D	1100

All acceptance criteria were met.

# Sample Number(s) Cross-Reference Table

OrderNum: 1504587

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

**Client Project Number: Client PO Number:** 

Page 1 of 1

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #1	1504587-1		LIQUID	30-Apr-15	10:20

Date Printed: Friday, May 01, 2015

	ALS Laboratory Group  225 Commerce Drive, Fort Collins, Colorado 80524 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-15	\$22 Form 202r8								WO	RKORDE		1504,587										
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RELINQUISHED BY RECEIVED BY

RECEIVED BY

Preservative Key:



### ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)  7. Were airbills / shipping documents present and/or removable?  8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)  8. Are all aqueous non-preserved samples pH 4-9?  10. Is there sufficient sample for the requested analyses?  11. Were all samples placed in the proper containers for the requested analyses?  12. Are all samples within holding times for the requested analyses?  13. Were all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  15. Do any water samples contain sediment?  16. Were the samples contain sediment?  17. Mount of sediment: \( \text{dusting} \) moderate \( \text{heavy} \) house of custody seals on cooler:  18. Were the samples shipped on ice?  19. Were cooler temperatures measured at 0.1-6.0°C?  19. No. of custody seals on cooler:  10. Cooler #:  11. Temperature (°C):  12. Are all samples with holding times for the requested analyses?  19. No. of custody seals on cooler:  10. No. of custody seals on cooler:  11. Were cooler temperatures measured at 0.1-6.0°C?  12. R gun used*:  12. #4 ONLY  1329  No. of custody seals on cooler:  1329  No. of custody seals on cooler:  14. Shaple battles with suckground and within DOT scceptance criteria? YES / NQ/NA (If no, see Form 008.)  15. Do title look! Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #! AND #!6.  15. Do title look! Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #! AND #!6.  16. OT associated with all hattles with suckground and within DOT scceptance criteria? YES / NQ/NA (If no, see Form 008.)  17. Are all samples bettles with suckground and within DOT scceptance criteria? YES / NQ/NA (If no, see Form 008.)  18. Contained that all hattles with suckground and within DOT scceptance criteria	Client: DCP Midstream Workorder No: 15045	8,7	
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5. Are the COC and bottle labels complete and legible?  6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)  7. Were airbills / shipping documents present and/or removable?  8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)  9. Are all aqueous non-preserved samples pH 4-9?  10. Is there sufficient sample for the requested analyses?  11. Were all samples placed in the proper containers for the requested analyses?  12. Are all samples within holding times for the requested analyses?  13. Were all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  15. Do any water samples contain sediment?  16. Are all samples solution to the requested analyses?  17. Were cooler temperatures measured at 0.1-6.0°C?  18. Bun used*:  19. NO  19. No. of custody seals on cooler:  19. No. of custod	3. Are Custody seals on sample containers intact?	YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)  7. Were airbills / shipping documents present and/or removable?  8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)  8. Are all aqueous samples prequiring preservation preserved correctly? (excluding volatiles)  8. Are all aqueous samples prequiring preservation preserved correctly? (excluding volatiles)  8. Are all aqueous samples prequiring preservation preserved correctly? (excluding volatiles)  8. Are all aqueous samples prequiring preservation preserved correctly? (excluding volatiles)  8. Are all aqueous samples prequiring preservation preserved correctly? (excluding volatiles)  8. Are all aqueous samples for the requested analyses?  9. No. 11. Were all samples placed in the proper containers for the requested analyses?  9. No. 12. Are all samples placed in the proper containers for the requested analyses?  13. Were all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  15. Do any water samples contain sediment?  16. No. Amount of sediment:  17. Amount of sediment:  18. Aumount of sediment:  19. No. of custody seals on cooler:  19. No. of custody se	4. Is there a COC (Chain-of-Custody) present or other representative documents?	YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)  7. Were airbills / shipping documents present and/or removable?  8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)  8. Are all aqueous samples prequiring preservation preserved correctly? (excluding volatiles)  8. Are all aqueous samples prequiring preservation preserved correctly? (excluding volatiles)  8. Are all aqueous samples prequiring preservation preserved correctly? (excluding volatiles)  8. Are all aqueous samples prequiring preservation preserved correctly? (excluding volatiles)  8. Are all aqueous samples prequiring preservation preserved correctly? (excluding volatiles)  8. Are all aqueous samples for the requested analyses?  9. No. 11. Were all samples placed in the proper containers for the requested analyses?  9. No. 12. Are all samples placed in the proper containers for the requested analyses?  13. Were all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  15. Do any water samples contain sediment?  16. No. Amount of sediment:  17. Amount of sediment:  18. Aumount of sediment:  19. No. of custody seals on cooler:  19. No. of custody se	5. Are the COC and bottle labels complete and legible?	YES	ND
A Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)  NA YES NO  A Are all aqueous samples requiring preserved samples pH 4-9?  NA YES NO  I. Were all samples placed in the proper containers for the requested analyses?  II. Were all samples placed in the proper containers for the requested analyses?  II. Are all samples within holding times for the requested analyses?  II. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  NA YES NO  Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  NA YES NO  NA Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  NA YES NO  No any water samples contain sediment?  Amount of sediment: X dusting moderate heavy  NA WES NO  16. Were the samples shipped on ice?  NO. of custody seals on cooler:  Cooler #:  Temperature (CO: 13, 29  No. of custody seals on cooler:  Cooler #:  Temperature (CO: 13, 29  No. of custody seals on cooler:  External µR/hr readings S two times background and within DOT acceptance criteria? YES/NO(NA) (If no, see Form 008.)  Additional Information: Provide Details Bellow POR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #I AND #16.  The bed off and MUCh of it is not legable the bellow POR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #I AND #16.  The bed off and MUCh of it is not legable time. The legable is the sample bettles with all bottless MI other samples bettless with all bottless MI other samples bettless in the sample shellow POR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #I AND #16.  The policy of the sample shellow POR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #I AND #16.  The policy of the sample shellow POR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #I AND #16.  The policy of the samples with all bottless MI other samples bettless the client contacted YES NO / NA Contact:  NA ON The Color of the samples with all bottless MI other samples bettless of the samples with all the samples with all the samples with all the samples with all the s	6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of	YES	) NO
9. Are all aqueous non-preserved samples pH 4-9? 10. Is there sufficient sample for the requested analyses? 11. Were all samples placed in the proper containers for the requested analyses? 12. Are all samples within holding times for the requested analyses? 13. Were all samples containers received intact? (not broken or leaking, etc.) 14. Are all samples requiring no headspace (VOC, GRO, RSK/MEB, Rx CN/S, radon) 15. Do any water samples contain sediment?  Amount of sediment:	7. Were airbills / shipping documents present and/or removable?	YES	МО
10. Is there sufficient sample for the requested analyses?  11. Were all samples placed in the proper containers for the requested analyses?  12. Are all samples within holding times for the requested analyses?  13. Were all samples containers received intact? (not broken or leaking, etc.)  14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  15. Analyse of the samples containers received intact? (not broken or leaking, etc.)  16. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  17. Do any water samples contain sediment?  18. Do any water samples contain sediment?  18. Amount of sediment: \( \times \) dusting moderate heavy  18. Were the samples shipped on ice?  19. Were cooler temperatures measured at 0.1-6.0°C?  19. Were cooler temperatures measured at 0.1-6.0°C?  19. Were cooler temperatures measured at 0.1-6.0°C?  19. No. of custody seals on cooler:  10. Door survey  10. No. of custody seals on cooler:  11. Temperature (°C): 13. 29  12. No. of custody seals on cooler:  12. No. of custody seals on cooler:  13. Do many water samples of two times bedge one and within DOT acceptance criteria? YES/NO/NA (If no, see Form 008.)  19. Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT \$1 AND \$16.  19. Do the doff and Much of it is not legable.  19. Do the doff and Much of it is not legable.  19. Lo 1-1-8, 1-9  19. Lo 1-1-8, 1-9  20. Asspected with all bothles. All other samples bettles technically all other samples bettles technically all other samples bettles technically all bothles. All other samples bettles technically all other samples bettles technically all others. The content of the content	8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	YES	NO
10. Is there sufficient sample for the requested analyses?  11. Were all samples placed in the proper containers for the requested analyses?  12. Are all samples within holding times for the requested analyses?  13. Were all sample containers received intact? (not broken or leaking, etc.)  14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  15. Do any water samples contain sediment?  16. Do any water samples contain sediment?  17. Amount of sediment:	9. Are all aqueous non-preserved samples pH 4-9?	(YES)	NO
12. Are all samples within holding times for the requested analyses?  13. Were all sample containers received intact? (not broken or leaking, etc.)  14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  15. Do any water samples contain sediment?  Amount of sediment:		YES	МО
12. Are all samples within holding times for the requested analyses?  13. Were all sample containers received intact? (not broken or leaking, etc.)  14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  15. Do any water samples contain sediment?  16. Were the samples shipped on ice?  17. Were cooler temperatures measured at 0.1-6.0°C?  18. Bun used*: Anount RADON YES NO  Cooler #:  Temperature (°C): 13, 29  No. of custody seals on cooler: 2  No. of custody seals on cooler: 2  No. of custody seals on cooler: 1  Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO(NA) (If no, see Form 008.)  Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.  The bed off and much of it is not legable by these such as a part of the part of th		YES	NO
A re all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble:    Size of bubble:   Size of		YES	NO
headspace free? Size of bubble: X < green pea		YES	NO
Amount of sediment: \( \times \) dusting \( \text{moderate} \) heavy \( \text{NN} \) \( \text{TES} \) NO \( \text{IS} \) (8. Were the samples shipped on ice? \( \text{IS} \) NO \( \text{TES} \) NO \( \text{TES} \) NO \( \text{Cooler #: } \) \( \text{Temperatures measured at 0.1-6.0°C? } \( \text{R gun used*: } \text{#2} \) #4 \( \text{RAD} \) YES \( \text{NO} \) \( \text{NO} \) (17. Were cooler temperatures measured at 0.1-6.0°C? } \( \text{R gun used*: } \text{#2} \) #4 \( \text{RAD} \) YES \( \text{NO} \) NO. of custody seals on cooler: \( \text{2} \) \( \text{NO} \) No. of custody seals on cooler: \( \text{2} \) \( \text{NO} \) No. of custody seals on cooler: \( \text{2} \) \( \text{NO} \) \( \text{NO} \) (NA) (If no, see Form 908.) \( \text{Additional Information: } \) PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16. \( \text{SO} \) \( \text{SO} \) \( \text{LO}	11 11/14	YES	NO
16. Were the samples shipped on ice?  17. Were cooler temperatures measured at 0.1-6.0°C?  18. gun used*: #2 #4 RAD YES NO  Cooler #:  Temperature (°C):  3,2°  No. of custody seals on cooler: 2  No. of custody seals on cooler: 2  External µR/hr reading:   →  Were external µR/hr reading:   →  Were external µR/hr reading:   →  Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO NA (If no, see Form 908.)  Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.  Softle   ADD	- I IV/A	YES	NO
No. of custody seals on cooler:  Temperature (°C): 13, 26  No. of custody seals on cooler:  Background µR/hr reading: NH  Were external µR/hr reading: NH  Were external µR/hr reading: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.  Tubbed off and much of it is not legable  If applicable, was the client contacted (YES) NO / NA Contact:  Branch Manager Signature / Date:  "IR Gun #2: Oakton, SN 29922500201-0066		MES	NO
Cooler #: Temperature (°C): 3.29  No. of custody seals on cooler:  DOT Survey Acceptance Information  Background µR/hr reading: NA  Were external µR/hr readings: 10- Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO(NA) (If no, see Form 008.)  Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.  5) Bottle label information has gotten wet been  YUbbed off and much of it is not legable  If somple bottles with smeared labels were in and cooler with  COC associated with all bottles. All other samples for these rec  If applicable, was the client contacted (YES) NO/NA Contact: Branden Hauls Date/Time: 4/30/15  Project Manager Signature / Date:  *IR Gun #2: Oakton, SN 239222500201-0066  *IR Gun #4: Oakton, SN 239222500201-0066	PAD	YES	(NO)
14) 1-6, 1-7, 1-8,1-9  15) 1-1, 1-2  All sample bettles with sneared labels were in one cooker with COC associated with all bottles. All other samples bottles rec if applicable, was the client contacted (YES) NO/NA Contact: Branden Hayes Date/Time: 4/30/15  Project Manager Signature / Date:  *IR Gun #2: Oakton, SN 29922500201-0066  *IR Gun #4: Oakton, SN 29922500201-0066	No. of custody seals on cooler:    DOT Survey   Acceptance   External µR/hr reading: NH     Background µR/hr reading:   D-     Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / NA (If no, see Form 00     Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #		
Project Manager Signature / Date:	14) 1-6, 1-7, 1-8,1-9 15) 1-1, 1-2  All sample bottles with sneared labels were in one concord associated with all bottles. All other samples / 6	poler wo	14 0.
**************************************	Project Manager Signature / Date: 4/30/15	ë	mail
Page I of I		Page 1	of

### SAMPLE SUMMARY REPORT

Client:

DCP Midstream, LP

Date: 01-May-15

Project:

Roggen to Lochbuie Hydro-Test

Work Order: 1504587

Sample ID:

North Tank #1

**Lab ID:** 1504587-1

Legal Location:

Matrix: LIQUID

**Collection Date:** 4/30/2015 10:20

Percent Moisture:

Analyses	Result	Report Dilution Result Qual Limit Units Factor		Date Analyzed		
Diesel Range Organics		SW80 <sup>2</sup>	SW8015M		Date: 5/1/201	15 PrepBy: JFN
Diesel Range Organics	ND		0.75	MG/L	1	5/1/2015 12:50
Surr: O-TERPHENYL	92		54-123	%REC	1	5/1/2015 12:50
Gasoline Range Organics		SW80 <sup>2</sup>	15	Prep	Date: 4/30/20	015 PrepBy: JFN
GASOLINE RANGE ORGANICS	0.18	GZ	0.1	MG/L	1	4/30/2015 17:13
Surr: 2,3,4-TRIFLUOROTOLUENE	87		74-129	%REC	1	4/30/2015 17:13
GC/MS Volatiles		SW826	0 25	Prep	Date: 4/30/20	015 PrepBy: SDW
BENZENE	15		1	UG/L	1	4/30/2015 19:49
TOLUENE	39		1	UG/L	1	4/30/2015 19:49
ETHYLBENZENE	2.4		1	UG/L	1	4/30/2015 19:49
M+P-XYLENE	8.9		1	UG/L	1	4/30/2015 19:49
O-XYLENE	3.4		1	UG/L	1	4/30/2015 19:49
TOTAL XYLENES	12		1	UG/L	1	4/30/2015 19:49
Surr: 4-BROMOFLUOROBENZENE	102		85-115	%REC	1	4/30/2015 19:49
Surr: DIBROMOFLUOROMETHANE	95		84-118	%REC	1	4/30/2015 19:49
Surr: TOLUENE-D8	95		85-115	%REC	1	4/30/2015 19:49
gnitability		SW10	10	Prep	Date: 5/1/20	15 PrepBy: BCH
IGNITABILITY	ND		96	deg C	1	5/1/2015
рН		SM450	00-H	Prep	Date: 5/1/20	15 PrepBy: JAC
РН	7.9		0.1	рН	1	5/1/2015
Total Dissolved Solids		SM254	10C	Prep	Date: 4/30/2	015 PrepBy: AJD
TOTAL DISSOLVED SOLIDS	1100		40	MG/L	1	5/1/2015
Total Suspended Solids		SM254	10D	Prep	Date: 4/30/2	015 PrepBy: AJD
TOTAL SUSPENDED SOLIDS	120		20	MG/L	1	5/1/2015

### SAMPLE SUMMARY REPORT

Client:

DCP Midstream, LP

Project:

Analyses

Roggen to Lochbuie Hydro-Test

Sample ID:

North Tank #1

**Legal Location:** 

**Collection Date:** 4/30/2015 10:20

Date: 01-May-15

Date. 01-May-13

Work Order: 1504587

Lab ID: 1504587-1

Matrix: LIQUID

Percent Moisture:

Result

Qual

Report Limit Units

Dilution Factor

Date Analyzed

#### **Explanation of Qualifiers**

#### Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

\* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested

MDC

#### Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

- Z Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- \* Duplicate analysis (relative percent difference) not within control limits.
- S SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

#### Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

- B Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E Analyte concentration exceeds the upper level of the calibration range.
- J Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A A tentatively identified compound is a suspected aldol-condensation product.
- X The analyte was diluted below an accurate quantitation level.
- \* The spike recovery is equal to or outside the control criteria used.
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasolineJP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

LIMS Version: 6.760

AR Page 2 of 2 8 of 13

Client:

DCP Midstream, LP

Work Order:

1504587

Project:

Roggen to Lochbuie Hydro-Test

**Date:** 5/1/2015 4:58:5

**QC BATCH REPORT** 

Batch ID: F	IC150430-62-1 Ins	strument ID: FU	ELS-1		Method: SI	W8015						210
LCS	Sample ID: <b>HC150430-62</b>	ranga AU.		Thursday.	Uı	nits: MG/L		Analysi	s Date:	4/30/201	15 18:37	
Client ID: Ru			D: <b>HC150430</b> -	6A			ep Date: <b>4/30</b>	/2015	DF: 1			
Analyte		Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE F	RANGE ORGANICS	0.453	0.1	0.5		91	79-118				20	
Surr: 2,3,4	-TRIFLUOROTOLUENE	0.094		0.1		94	74-129					
МВ	Sample ID: HC150430-62				U	nits: MG/L		Analysi	is Date:	4/30/201	15 16:07	
Client ID:		Run II	D: <b>HC150430</b> -	6A		Pre		rep Date: 4/30/2015		DF: 1		
Analyte		Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE F	RANGE ORGANICS	ND	0.1									
	-TRIFLUOROTOLUENE	0.0848		0.1	*	85	74-129					

Client:

DCP Midstream, LP

Work Order:

1504587

**Project:** 

Roggen to Lochbuie Hydro-Test

# QC BATCH REPORT

Batch ID: I	HC150501-100-1 Instru	ment ID: FU	ELS-1		Method: SI	W8015M	VIII C			12-11	An W		
LCS	Sample ID: <b>HC150501-100</b>	des a su	desk and			Units: MG/L			Analysis Date: 5/1/2015 10:29				
Client ID:	lient ID:		D: <b>HC150501</b> -	8A	Prep			ep Date: <b>5/1/</b> 2	DF: 1				
Analyte		Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Quai	
Diesel Range	e Organics	9.4	0.728	10.1		93	36-150				20		
Surr: O-TE	ERPHENYL	1		1.01		99	54-123						
LCSD	Sample ID: <b>HC150501-100</b>				Uı	nits: MG/L		Analysi	s Date: 8	5/1/2015	11:04		
Client ID:			Run ID: HC150501-8A			Prej			ep Date: <b>5/1/2015</b> DI				
Analyte		Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua	
Diesel Range	e Organics	9.3	0.738	10.2		91	36-150		9.4	. 1	20		
Surr: O-TE	ERPHENYL	0.973		1.02		95	54-123			3			
МВ	Sample ID: <b>HC150501-100</b>				Units: MG/L			Analysis Date: 5/1/20			/2015 09:53		
Client ID:		Run II	Run ID: HC150501-8A				Pre	2015	DF:				
Analyte		Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua	
Diesel Rang	e Organics	ND	0.75										
Surr O.TE	ERPHENYL	0.973		1.04		94	54-123						

Client:

DCP Midstream, LP

Work Order:

1504587

Project:

Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

LCS Sample ID: VL15043		Ur	nits: %REC	Analysis Date: 4/30/2015 09:53								
Client ID:	Run II	D: <b>VL150430-</b> 3	BA			Pr	ep Date: 4/30	/2015	DF:	1		
				SPK Ref		Control	Decision	RPD		RPD		
Analyte	Result	ReportLimit	SPK Val	Value	%REC	Limit	Level	Ref	RPD	Limit	Qua	
Surr: 4- BROMOFLUOROBENZENE	25.2		25	16	101	85-115						
Surr: DIBROMOFLUOROMETHANE	23.8		25		95	84-118						
Surr: TOLUENE-D8	24		25		96	85-115						
BENZENE	9.82	1	10		98	83-117				20		
TOLUENE	9.77	1	10		98	82-113	****			20		
ETHYLBENZENE	9.96	1	10	* * *	100	81-113				20		
M+P-XYLENE	19.6	1	20		98	82-115				20		
O-XYLENE	9.8	1	10		98	81-115				20		
LCSD Sample ID: VL15043	-	Ur	nits: %REC	Analysi	s Date: 4	/30/201	5 10:14					
Client ID:	Run II	Run ID: VL150430-3A				Pre			DF:			
				SPK Ref		Control	Decision	RPD		RPD		
Analyte	Result	ReportLimit	SPK Val	Value	%REC	Limit	Level	Ref	RPD	Limit	Qua	
Surr: 4- BROMOFLUOROBENZENE	24.6		25		98	85-115			2			
Surr: DIBROMOFLUOROMETHANE	23.9		25		96	84-118			0			
Surr: TOLUENE-D8	23.8		25		95	85-115			1	Lower		
BENZENE	9.8	1	10		98	83-117		9.82	0	20		
TOLUENE	9.66	1	10		97	82-113		9.77	1	20		
ETHYLBENZÉNÉ	9.89	1	10		99	81-113		9.96	1	20		
M+P-XYLENE	19.5	1	20		98	82-115		19.6	0	20		
O-XYLENE	9.8	1	10		98	81-115		9.8	0	20		
MB Sample ID: VL15043	0-3			Uı	nits: %REC	)	Analys	is Date: 4	/30/201	5 11:00		
Client ID:		D: <b>VL150430</b> -	3A				Prep Date: 4/30/2015			DF: 1		
				SPK Ref		Control	Decision	RPD		RPD		
Analyte	Result	ReportLimit	SPK Val	Value	%REC	Limit	Level	Ref	RPD	Limit	Qua	
Surr: 4- BROMOFLUOROBENZENE	25.8	•	25		103	85-115						
Surr:	23.8		25		95	84-118						
DIBROMOFLUOROMETHANE Surr: TOLUENE-D8	24.1		25		96	85-115						
BENZENE	ND	1			90							
TOLUENE	ND	1										
	ND ND	<u>'</u> 1										
FTHYI RENZENE		<u>'</u> 1										
ETHYLBENZENE M+P-XYI ENE	NII )											
ETHYLBENZENE M+P-XYLENE O-XYLENE	ND ND	1										

QC Page: 3 of 5

Client:

DCP Midstream, LP

Work Order:

1504587

Project:

Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

LCS	Sample ID: TD150	430-1				Units: MG/L			Analysi	s Date:	5/1/2015	5	
Client ID:			Run ID: <b>TD150501-1A1</b>		Pre			rep Date: 4/30/2015		DF: <b>1</b>			
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
TOTAL DISS	SOLVED SOLIDS		410	20	400		103	85-115				5	
MB	Sample ID: TD150	430-1				Units: MG/L			Analysis Date: 5/1/2015				
Client ID:			Run II	D: <b>TD150501</b> -	1A1	Pre			ep Date: <b>4/30</b>	DF: 1			
			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
Analyte													

DCP Midstream, LP

Work Order:

1504587

**Project:** 

Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: T	S150430-1-1	Instrur	ment ID: <b>Ba</b>	lance		Method: SI	W2540D						
LCS	Sample ID:	TS150430-1		Table steel		Ur	nits: MG/L		Analysi	s Date:	5/1/2015	5	
Client ID:			Run II	D: TS150501-	1A1			Pre	ep Date: <b>4/30</b>	/2015	DF:	1	
Analyte		1778	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSPENDED SOLIDS		462	20	500		92	85-115				5		
MB	Sample ID:	TS150430-1		JESSA		Units: MG/L			Analysis Date: 5/1/2015				
Client ID:			Run II	D: <b>TS150501</b> -	1A1			Pre	ep Date: <b>4/30</b>	/2015	DF:	1	
Analyte		19 309 3 36 16 31	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL 01101	PENDED SOLID	s	ND	20									



Ft. Collins, Colorado

LIMS Version: 6.761

Page 1 of 1

Thursday, May 07, 2015

Branden Hayes DCP Midstream, LP 3026 4th Avenue Greeley, CO 80631

Re: ALS Workorder: 1505086

Project Name: Roggen to Lochbuie Hydro-Test

Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analysis:

Inorganics

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

1 1/2

Sinc

ALS Er#ironmen

Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins						
Accreditation Body	License or Certification Number					
Alaska (AK)	UST-086					
Alaska (AK)	CO01099					
Arizona (AZ)	AZ0742					
California (CA)	06251CA					
Colorado (CO)	CO01099					
Connecticut (CT)	PH-0232					
Florida (FL)	E87914					
Idaho (ID)	CO01099					
Kansas (KS)	E-10381					
Kentucky (KY)	90137					
L-A-B (DoD ELAP/ISO 170250)	L2257					
Maryland (MD)	285					
Missouri (MO)	175					
Nebraska(NE)	NE-OS-24-13					
Nevada (NV)	CO000782008A					
New Jersey (NJ)	CO003					
New York (NY)	12036					
North Dakota (ND)	R-057					
Oklahoma (OK)	1301					
Pennsylvania (PA)	68-03116					
Tennessee (TN)	2976					
Texas (TX)	T104704241					
Utah (UT)	CO01099					
Washington (WA)	C1280					



# 1505086

### Inorganics:

The sample was analyzed following Standard Method procedures for the current revision of the following SOP and method:

Analyte Specific conductance

Method SM2510B SOP #

All acceptance criteria were met.

# Sample Number(s) Cross-Reference Table

OrderNum: 1505086

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

**Client Project Number: Client PO Number:** 

Page 1 of 1

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #1	1505086-1		LIQUID	30-Apr-15	10:20

Date Printed: Thursday, May 07, 2015

1505084

	ALS Laboratory Group 225 Commerce Drive, Fort Collins, Colorado 80524				Chair	1-of-C	usto	ody								1		15	; 50	<b>冲</b>	<u> </u>	87	_
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*Time Zone (Circle):	EST CST MST PST Metric O = oil S = s	soil NS = non-soil solid	W = water	L=liquid E=6	ndract F	= filter				SIGNA	TURE			1,2	PRI	NTED N	AME	1	100	DATE	<u> </u>	TIME	É.
	nions, please detail analytes below.	QC PACKAGE	lehack kalou	11,144 ju	. R	ELINQUIS	HED BY	17.00	1	111	,		-	Bread			<del></del>	2 - 1		30-15		llau	
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LEVEL II (Standard QC) LEVEL (I) (Sid QC + forms) LEVEL IV (SId QC + forms +

13.20

1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
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Form 201r24.xls (06/04/2012)

	ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM 150	5084	
	Client: DCP Midstream Workorder No: 15045	37 a	N5/7/15
	Project Manager: ARW Initials: ECP Date:	4 30	15
<u></u>	Does this project require any special handling in addition to standard ALS procedures?	YES	(NO)
2.	Are custody seals on shipping containers intact?	YES	NO
3.	Are Custody seals on sample containers intact?	YES	NO
4	Is there a COC (Chain-of-Custody) present or other representative documents?	YES	NO
× 5.	Are the COC and bottle labels complete and legible?	YES	NO
6. 7. 8. 9.	Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)	YES	ОИ
\ <del> </del>	Were airbills / shipping documents present and/or removable?	YES	NO
- 1	Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	YES	NO
8.	Are all aqueous samples requiring preservation preserved.  Are all aqueous non-preserved samples pH 4-9?  N/A	(YES)	NO
1	Are an aqueous non-preserved samples pri + >:  Is there sufficient sample for the requested analyses?	YES	NO
"	. Were all samples placed in the proper containers for the requested analyses?	YES	NO
	A Are all samples within holding times for the requested analyses?	(YES)	NO
	Were all sample containers received intact? (not broken or leaking, etc.)	YES	NO
	Were all sample containers received intact? (not blocker of leaking, etc.)  Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)  headspace free? Size of bubble: <pre></pre>	YES	NO
4	s. Do any water samples contain sediment?  Amount  N/A	YES	NO
L	Amount of Sections A section of the	MES	NO
	6. Were the samples shipped on ice? 7. Were cooler temperatures measured at 0.1-6.0°C? R gun used*: #2 #4 ONLY	YES	(NO)
	Cooler #:  Temperature (°C): 13, 29  No. of custody seals on cooler: 2  DOT Survey Acceptance Information  Background µR/hr reading: 10-		
L	Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / NA (if no, see Form 008.	AND #16	
	Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1.  5) Bottle label information has gotten wet light of the provided of the provided in the pro	oeen Lible	2
	All sample bottles with sneared labels were in one con COC associated with all bottles. All other samples be lightly applicable, was the client contacted (YES) NO/NA Contact: Branden Hayes Date/	oler us oHles Firme: 4	received 130/15 Prail
	*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002	Раде	1 05 1

Page 1 of

#### SAMPLE SUMMARY REPORT

Client:

DCP Midstream, LP

Project:

Roggen to Lochbuie Hydro-Test

Sample ID:

North Tank #1

**Legal Location:** 

Date: 07-May-15

Work Order: 1505086

Lab ID: 1505086-1

Matrix: LIQUID

Percent Moisture:

Specific Conductance in Water SPECIFIC CONDUCTIVITY

**Collection Date:** 4/30/2015 10:20

1659

SM2510B

Prep Date: 5/7/2015

PrepBy: **JAC** 

1 umhos/cm

5/7/2015

#### **Explanation of Qualifiers**

#### Radiochemistry:

U or ND - Result is less than the sample specific MDC.

- Y1 Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 Chemical Yield outside default limits.
- W DER is greater than Warning Limit of 1.42
- \* Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G Sample density differs by more than 15% of LCS density.
- D DER is greater than Control Limit
- M Requested MDC not met.
- LT Result is less than requested MDC but greater than achieved MDC.

- M3 The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L LCS Recovery below lower control limit.
- H LCS Recovery above upper control limit.
- P LCS, Matrix Spike Recovery within control limits.
- N Matrix Spike Recovery outside control limits
- NC Not Calculated for duplicate results less than 5 times MDC
- B Analyte concentration greater than MDC.
- B3 Analyte concentration greater than MDC but less than Requested
- MDC.

#### **Inorganics:**

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - indicates that the compound was analyzed for but not detected.

- E The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
- M Duplicate injection precision was not met.
- N Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- Z Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- \* Duplicate analysis (relative percent difference) not within control limits.
- S SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit

#### Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

- B Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E Analyte concentration exceeds the upper level of the calibration range.
- J Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A A tentatively identified compound is a suspected aldol-condensation product.
- X The analyte was diluted below an accurate quantitation level.
- \* The spike recovery is equal to or outside the control criteria used
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline - JP-8
- diesel
- mineral spirits - motor oil
- Stoddard solvent - bunker C

LIMS Version: 6.761

Ft. Collins, Colorado

LIMS Version: 6.760

Page 1 of 1

Friday, May 01, 2015

Branden Hayes DCP Midstream, LP 3026 4th Avenue Greeley, CO 80631

Re: ALS Workorder: 1504586

Project Name: Roggen to Lochbuie Hydro-Test

Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analyses:

GC/MS Volatiles		
Ignitability		
Inorganics		
Total Extractable Petroleum Hydrocarbons (Diesel)		1.4
Total Volatile Petroleum Hydrocarbons (Gasoline)		

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Singerely,

Amy R. Wolf
Project Manager

ADDRESS 225 Commerce Drive, Fort Collins, Colorado, USA 80524 | PHONE +1 970 490 1511 | FAX +1 970 490 1522 ALS GROUP USA, CORP. Part of the ALS Laboratory Group An ALS Limited Company

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environme	ental – Fort Collins
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



## 1504586

#### GC/MS Volatiles:

The sample was analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

#### GRO:

The sample was analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C6 to C10

All acceptance criteria were met.

#### DRO:

The sample was analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

#### Ignitability:

The sample was prepared and analyzed based on SW-846, 3<sup>rd</sup> Edition procedures; SW-1010; and the current revision of SOP 629.

All acceptance criteria were met.

#### Inorganics:

The sample was analyzed following Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	SOP#
pH	SM4500-H <sup>+</sup> B	1126
TDS	SM2540C	1101
TSS	SM2540D	1100

All acceptance criteria were met.

# Sample Number(s) Cross-Reference Table

**OrderNum:** 1504586

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

Client Project Number: Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #4	1504586-1		LIQUID	30-Apr-15	11:45

Date Printed: Friday, May 01, 2015

# ALS

5 of 13

# **ALS Laboratory Group**

225 Commerce Drive, Fort Collins, Colorado 80524 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

### Chain-of-Custody

WORKORDER	1504581	Q
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Form 20218

(ALS)		SAMPLER	Benden	lare		43	i ding para	DATE				PAGE	100	of	
PROJECT NAME	Roggen to Lorbbaire	SITEID	Broden ! Rugger	-6-				ROUND		4		DISPOSAL	By Lab o	r Retun	n to Client
PROJECT No.	30	EDD FORMAT	30												
		PURCHASE ORDER													1
COMPANYNAME	DCP Midskeam	BILL TO COMPANY	-					2	1						1 1
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or metals or anions, please de	tail analytes below.			SIGNATURE	PRINTED NAME	DATE	TIME
Comments:		GC PACKAGE (check below)	RELINQUISHED BY	Blad for	Barcher S. How	4-30	11:50
		LEVEL II (Standard QC)	RECEIVED BY	1/2 1 N III //	ErinPeterson	4/30	1340
		LEVEL III (Std QC + forms)	RELINQUISHED BY		1155		
		LEVEL IV (Std QC + forms + raw data)	- RECEIVED BY				
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#### ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

Client: DCP Midstream Workorder No: 150	158	36.	
Project Manager: ARW Initials: ECP	Date:	430	[15
Does this project require any special handling in addition to standard ALS procedures?		YES	(NO
Are custody seals on shipping containers intact?	NONE	YES	NO
Are Custody seals on sample containers intact?	NONE	YES	МО
Is there a COC (Chain-of-Custody) present or other representative documents?		YES	NO
Are the COC and bottle labels complete and legible?		YES	NO
Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)	200	YES	NO
Were airbills / shipping documents present and/or removable?	DROP OFF	YES	NO
Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A)	YES	NO
Are all aqueous non-preserved samples pH 4-9?	N/A	(YES)	NO
Is there sufficient sample for the requested analyses?		YES	NO
Were all samples placed in the proper containers for the requested analyses?		YES	NO
2. Are all samples within holding times for the requested analyses?		YES	МО
3. Were all sample containers received intact? (not broken or leaking, etc.)		YES	NO
4. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <a href="mailto:x&lt;/a&gt; &lt;a href=" mailto:green"="">green</a> pea <a href="mailto:green">green</a> pea	N/A	YES	NO
5. Do any water samples contain sediment?  Amount of sediment: dusting moderateheavy	N/A	YES	NO
16. Were the samples shipped on ice?		WES	ΝО
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4	RAD ONLY	YES	NO
Temperature (°C): Volume  No. of custody seals on cooler:  No. of custody seals on cooler:  External μR/hr reading: NA  Background μR/hr reading: 10  Were external μR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / NA (If no, see Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXTENDED TO ANY QUESTION ABOVE			
If applicable, was the client contacted? YES / NO / NA Contact:  Project Manager Signature / Date:  *IR Gun #2: Oakton, SN 29922500201-0066 Form 201r24.xis (06/04/2012)  *IR Gun #4: Oakton, SN 2372220101-0002	Date/T	ime:	

Form 201r24.xls (06/04/2012)

Page 1 of

### SAMPLE SUMMARY REPORT

Client:

DCP Midstream, LP

**Project:** 

Roggen to Lochbuie Hydro-Test

Sample ID:

Legal Location:

North Tank #4

**Collection Date:** 4/30/2015 11:45

Date: 01-May-15

Work Order: 1504586

Lab ID: 1504586-1

Matrix: LIQUID

**Percent Moisture:** 

Analyses	Result	Report Qual Limit	Units Dilution Factor	Date Analyzed
Diesel Range Organics		SW8015M	Prep Date: 5/1/2015	PrepBy: <b>JFN</b>
Diesel Range Organics	ND	0.73	MG/L 1	5/1/2015 12:15
Surr: O-TERPHENYL	90	54-123	%REC 1	5/1/2015 12:15
Gasoline Range Organics		SW8015	Prep Date: 4/30/2015	PrepBy: <b>JFN</b>
GASOLINE RANGE ORGANICS	0.016	J 0.1	MG/L 1	4/30/2015 16:53
Surr: 2,3,4-TRIFLUOROTOLUENE	86	74-129	%REC 1	4/30/2015 16:53
GC/MS Volatiles		SW8260_25	Prep Date: 4/30/2015	PrepBy: SDW
BENZENE	ND	pricured vitar - 1:	UG/L 1	4/30/2015 19:28
TOLUENE	ND	1	UG/L 1	4/30/2015 19:28
ETHYLBENZENE	ND	1	UG/L 1	4/30/2015 19:28
M+P-XYLENE	ND	1	UG/L 1	4/30/2015 19:28
O-XYLENE	ND	ya herenyi alizif	UG/L 1	4/30/2015 19:28
TOTAL XYLENES	ND	na Harraste 1	UG/L 1	4/30/2015 19:28
Surr: 4-BROMOFLUOROBENZENE	103	85-115	%REC 1	4/30/2015 19:28
Surr: DIBROMOFLUOROMETHANE	94	84-118	%REC 1	4/30/2015 19:28
Surr: TOLUENE-D8	96	85-115	%REC 1	4/30/2015 19:28
Ignitability		SW1010	Prep Date: 5/1/2015	PrepBy: <b>BCH</b>
IGNITABILITY	ND	96	deg C 1	5/1/2015
рН		SM4500-H	Prep Date: 5/1/2015	PrepBy: JAC
PH	7.71	0.1	<b>pH</b> 1	5/1/2015
Total Dissolved Solids		SM2540C	Prep Date: 4/30/2015	PrepBy: AJD
TOTAL DISSOLVED SOLIDS	1200	40	MG/L 1	5/1/2015
Total Suspended Solids		SM2540D	Prep Date: 4/30/2015	PrepBy: AJD
TOTAL SUSPENDED SOLIDS	ND	20	MG/L 1	5/1/2015

#### SAMPLE SUMMARY REPORT

Client:

DCP Midstream, LP

Project:

Roggen to Lochbuie Hydro-Test

Work Order: 1504586

Sample ID:

Lab ID: 1504586-1

Date: 01-May-15

**Legal Location:** 

North Tank #4

Matrix: LIQUID

Collection Date: 4/30/2015 11:45

Percent Moisture:

Report Qual

Dilution

**Analyses** 

Result

Limit Units

**Factor** 

**Date Analyzed** 

#### **Explanation of Qualifiers**

#### Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits

W - DER is greater than Warning Limit of 1.42

\* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC

B3 - Analyte concentration greater than MDC but less than Requested

MDC.

#### Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

\* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

#### Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

\* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:

- gasoline

- JP-8

- diesel

- mineral spirits

- motor oil

- Stoddard solvent

- bunker C

AR Page 2 of 2 8 of 13

LIMS Version: 6.760

Client:

DCP Midstream, LP

Work Order:

1504586

Project:

Roggen to Lochbuie Hydro-Test

Date: 5/1/2015 4:52:5

QC BATCH	REPORT
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	1C150430-62-1 Instr	rument ID: FU	CL3-1		Method: S	W8015						
LCS	Sample ID: HC150430-62	olisiiid		TO REFE	U	nits: MG/L		Analysi	s Date:	4/30/201	5 18:37	
Client ID:		Run II	D: <b>HC150430</b> -	6A			Pre	p Date: 4/30	/2015	DF:	1	
Analyte		Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
		0.453	0.1	0.5		91	79-118				20	
GASOLINE F	RANGE ORGANICS	0.433	0.1									
	RANGE ORGANICS -TRIFLUOROTOLUENE	0.094		0.1		94	74-129					
					U	94 Inits: <b>MG/L</b>	74-129	Analysi	s Date:	4/30/201	5 16:07	
Surr: 2,3,4-	-TRIFLUOROTOLUENE	0.094	D: <b>HC150430</b> -	0.1	U			Analysi ep Date: <b>4/30</b>		<b>4/30/201</b> DF:		
Surr: 2,3,4-	-TRIFLUOROTOLUENE	0.094		0.1	SPK Ref Value							Qual
Surr: 2,3,4  MB  Client ID:  Analyte	-TRIFLUOROTOLUENE	0.094 Run II	D: <b>HC150430</b> -	0.1 <b>6A</b>	SPK Ref	nits: MG/L	Pre	ep Date: <b>4/30</b> Decision	/ <b>2015</b> RPD	DF:	1 RPD	Qual

DCP Midstream, LP

Work Order:

1504586

Project:

Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

	HC150501-100		nent ID: <b>FU</b>				W8015M	ryetti, či, vi					
LCS	Sample ID:	HC150501-100				U	nits: MG/L		Analysi	s Date:	5/1/2015	5 10:29	
Client ID:			Run II	D: <b>HC150501</b> -	·8A			Pre	ep Date: <b>5/1/2</b>	2015	DF:	. 1	
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
Diesel Rang	e Organics		9.4	0.728	10.1		93	36-150				20	
Surr: O-TE	ERPHENYL		1		1.01		99	54-123					
LCSD	Sample ID:	HC150501-100				U	nits: MG/L		Analysi	s Date:	5/1/2015	5 11:04	
Client ID:			Run II	D: <b>HC150501</b> -	·8A			Pre	ep Date: <b>5/1/2</b>	2015	DF:	. 1	
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
Diesel Rang	e Organics	3.6	9.3	0.738	10.2		91	36-150		9.	4 1	20	
Surr: O-TE	ERPHENYL		0.973		1.02		95	54-123			3		
МВ	Sample ID:	HC150501-100				U	nits: MG/L		Analysi	s Date:	5/1/2015	5 09:53	
Client ID:			Run II	D: <b>HC150501</b> -	-8A			Pre	ep Date: <b>5/1/2</b>	2015	DF:	: 1	
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
Diesel Rang	e Organics		ND	0.75									
Surr: O-TE	ERPHENYL		0.973		1.04		94	54-123					

DCP Midstream, LP

Work Order:

Project:

LCS

Client ID:

Analyte

Surr: 4-

BENZENE

TOLUENE

O-XYLENE

LCSD

Client ID:

Analyte

Surr: 4-

BENZENE

**TOLUENE** 

MB

Client ID:

Analyte

BENZENE

**TOLUENE** 

O-XYLENE

TOTAL XYLENES

QC BATCH REPORT 1504586 Roggen to Lochbuie Hydro-Test Method: SW8260 25 Batch ID: VL150430-3-1 Instrument ID: HPV1 Analysis Date: 4/30/2015 09:53 Sample ID: VL150430-3 Units: %REC Prep Date: 4/30/2015 Run ID: VL150430-3A RPD SPK Ref Control Decision **RPD** Limit Ref Limit Level Value **RPD** Qual %REC SPK Val Result ReportLimit 25.2 101 85-115 25 BROMOFLUOROBENZENE 23.8 84-118 25 95 DIBROMOFLUOROMETHANE Surr: TOLUENE-D8 24 25 96 85-115 20 98 83-117 9.82 1 10 20 9.77 98 82-113 1 10 20 9.96 81-113 **ETHYLBENZENE** 1 10 100 20 M+P-XYLENE 19.6 1 20 98 82-115 9.8 98 81-115 20 1 10 Analysis Date: 4/30/2015 10:14 Sample ID: VL150430-3 Units: %REC Prep Date: 4/30/2015 DF: 1 Run ID: VL150430-3A **RPD RPD** SPK Ref Control Decision Limit Ref Value Limit Level **RPD** Qual Result ReportLimit SPK Val %REC 2 24.6 25 98 85-115 BROMOFLUOROBENZENE 0 23.9 25 96 84-118 DIBROMOFLUOROMETHANE 1 Surr: TOLUENE-D8 23.8 25 95 85-115 0 20 9.8 1 10 98 83-117 9.82 1 20 9.77 9.66 1 10 97 82-113 ETHYLBENZENE 81-113 9.96 1 20 9 89 10 99 1 20 19.5 82-115 19.6 0 M+P-XYLENE 98 1 20 O-XYLENE 9.8 10 98 81-115 9.8 0 20 1 Analysis Date: 4/30/2015 11:00 Units: %REC Sample ID: VL150430-3 Prep Date: 4/30/2015 DF: 1 Run ID: VL150430-3A RPD **RPD** SPK Ref Control Decision Limit Value Limit Level Ref RPD Qual ReportLimit SPK Val %REC Result 25.8 25 103 85-115 BROMOFLUOROBENZENE 23.8 25 84-118 DIBROMOFLUOROMETHANE 24.1 Surr: TOLUENE-D8 25 96 85-115 ND 1 ND 1 **ETHYLBENZENE** ND 1 M+P-XYLENE ΝĐ 1

The following samples were analyzed in this batch:

1504586-1

1

1

ND

DCP Midstream, LP

Work Order:

1504586

Project:

Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

LCS	Sample ID:	TD150430-1				U	nits: MG/L		Analysi	s Date:	5/1/2015	5	
Client ID:			Rur	ID: <b>TD150501</b>	-1A1			Pre	ep Date: <b>4/30</b>	/2015	DF:	1	
Analyte			Resu	t ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISS	OLVED SOLIDS		4	0 20	400		103	85-115				5	
МВ	Sample ID:	TD150430-1				U	nits: MG/L		Analysi	s Date:	5/1/2015	5	-
Client ID:			Rur	ID: <b>TD150501</b>	-1A1			Pre	ep Date: <b>4/30</b>	/2015	DF:	1	
Analyte			Resu	t ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
	OLVED SOLIDS		N	D 20									

DCP Midstream, LP

Work Order:

1504586

Project:

Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

LCS	Sample ID:	TS150430-1				U	Inits: MG/L		Analysi	s Date:	5/1/2015	i	
Client ID:			Run II	D: <b>TS1505</b>	01-1A1			Pre	ep Date: <b>4/30</b>	/2015	DF:	1	
Analyte	m		Result	ReportLi	mit SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSI	PENDED SOLID	S	462	J 201	20 500	Dec	92	85-115				5	
MB	Sample ID:	T\$150430-1		188	PRIM	<sub>e</sub> U	Inits: MG/L	***************************************	Analysi	s Date:	5/1/2015	5	13
Client ID:			Run II	D: <b>TS1505</b>	01-1A1			Pro	ep Date: <b>4/30</b>	/2015	DF:	1	
Analyte			Result	ReportLi	mit SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
	PENDED SOLID	_	ND		20								



Ft. Collins, Colorado

LIMS Version: 6.761

Page 1 of 1

Thursday, May 07, 2015

**Branden Hayes** DCP Midstream, LP 3026 4th Avenue Greeley, CO 80631

Re: ALS Workorder: 1505085

Project Name: Roggen to Lochbuie Hydro-Test

Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analysis:

Inorganics

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Amy R. Wolf

Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environme	ental – Fort Collins
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



# 1505085

### Inorganics:

The sample was analyzed following Standard Method procedures for the current revision of the following SOP and method:

Analyte Specific conductance

Method SM2510B <u>SOP#</u> 1128

All acceptance criteria were met.

# Sample Number(s) Cross-Reference Table

**OrderNum:** 1505085

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

Client Project Number: Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #4	1505085-1		LIQUID	30-Apr-15	11:45

Date Printed: Thursday, May 07, 2015

1505085

<b>A</b> .
(ALS)

### **ALS Laboratory Group**

225 Commerce Drive, Fort Collins, Colorada 80524

1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

Chain-of-Custody

WORKORDER 1504586 aw 5/7/15

ALS	1F: (800) 443-1511 PM: (870) 480-1511 FX: (870) 480-16	_		1-0		77			· . "	15. s.t.		<del> </del>	Form Augre		PAGE		of	-	מנו
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PROJECT NAME	Roggen to Lothaire		SITE ID	120	ugyer				TUR	RNARC	UND			_ 2	DISPOSAL	By Lab	or R	terum to (	Jient
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COMPANY NAME	DCP Midskeam	BILL TO	COMPANY								0.5								
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	EST CST MST PST Matrix O = oil S = sc	oil NS = no	n-soil solid \	N ≈ water	L=liquid E=	extract F	= filler		12 ****		n.c.	meZ-72	5. (5.3a)	Dance	DNAME	·	DATE	i II	WF.
For metals or anic	ons, please detail analytes below.				7.9 %-1.	7 - 2-k-1				>	UNAT	7/			D NAME				,
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RECEIVED BY

Preservative Key:

	A.T.	1
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# ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

150	50	185
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Client:	CP Midstream	Workorder No:	50t	158	6	hu 5/
Project Manager:	ARW	Initials:	<u>CP</u>	Date:	4/30	15
Does this project require any	special handling in addition to star	ndard ALS procedures?			YES	(NO
Are custody seals on ship				NONE	YES	NO
Are Custody seals on sam				NONE	YES	МО
Is there a COC (Chain-of-	Custody) present or other repre	sentative documents?			YES	ИО
	abels complete and legible?				(YES)	МО
Is the COC in agreement containers, matrix, reques	with samples received? (IDs, da sted analyses, etc.)	tes, times, no. of samples,	no. of		YES	МО
Were airbills / shipping d	ocuments present and/or remov	able?		DROP OFF	YES	NO
Are all aqueous samples req	uiring preservation preserved corre	etly? (excluding volatiles)	7	N/A)	YES	NO
Are all aqueous non-pres				N/A	YES	NO
	for the requested analyses?				YES	NO
. Were all samples placed	in the proper containers for the	requested analyses?			YES	NO
2. Are all samples within he	olding times for the requested a	nalyses?			YES	NO
. Were all sample containe	ers received intact? (not broken	or leaking, etc.)			(YES)	МО
Are all samples requiring	g no headspace (VOC, GRO, RS of bubble: < green pea	K/MEE, Rx CN/S, radon > green pea	)	N/A	YES	NO
5. Do any water samples co	ontain sediment?  dusting moderate	An heavy	ount	N/A	YES	NO
6. Were the samples shippe					MES	NO
7. Were cooler temperature		IR gun used*: #2	#4	RAD	YES	NO
No. of custod    DOT Survey     Acceptance     Information     Backgrou     Were external µR/hr readings ≤ to     Additional Information: Pi	Cooler #:  Temperature (°C):  Y seals on cooler:  Anal \( \mu R \)/hr reading:  NA  The properature of the p	ESPONSE TO ANY QUESTION	hvit	e Form 008  XCEPT #1	.) AND#16.	
If applicable, was the client cont	0	4/30/15 3 29922500201-0066		Date/	Time:	

6 of 7

#### SAMPLE SUMMARY REPORT

Date: 07-May-15

Lab ID: 1505085-1

Matrix: LIQUID

Client:

Analyses

DCP Midstream, LP

Project:

Roggen to Lochbuie Hydro-Test

Sample ID:

**Legal Location:** 

North Tank #4

**Collection Date:** 4/30/2015 11:45

Qual

Report Limit Units

Dilution **Factor** 

Work Order: 1505085

**Date Analyzed** 

Specific Conductance in Water SPECIFIC CONDUCTIVITY

1871

Result

SM2510B

Prep Date: 5/7/2015

**Percent Moisture:** 

PrepBy: JAC

1 umhos/cm

5/7/2015

#### **Explanation of Qualifiers**

#### Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

\* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested

MDC

#### Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

\* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

#### Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

- B Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E Analyte concentration exceeds the upper level of the calibration range.
- J Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A A tentatively identified compound is a suspected aldol-condensation product.
- X The analyte was diluted below an accurate quantitation level.
- \* The spike recovery is equal to or outside the control criteria used
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline - JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent - bunker C

LIMS Version: 6.761

Ft. Collins, Colorado

LIMS Version: 6.760

Page 1 of 1

Friday, May 01, 2015

Branden Hayes DCP Midstream, LP 3026 4th Avenue Greeley, CO 80631

Re: ALS Workorder: 1504585

Project Name: Roggen to Lochbuie Hydro-Test

Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analyses:

GC/MS Volatiles
Ignitability
Inorganics
Total Extractable Petroleum Hydrocarbons (Diesel)
Total Volatile Petroleum Hydrocarbons (Gasoline)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

Amy R. Wolf
Project Manager

ADDRESS 225 Commerce Drive, Fort Collins, Colorado, USA 80524 | PHONE +1 970 490 1511 | FAX +1 970 490 1522 ALS GROUP USA, CORP. Part of the ALS Laboratory Group An ALS Limited Company

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins								
Accreditation Body	License or Certification Number							
Alaska (AK)	UST-086							
Alaska (AK)	CO01099							
Arizona (AZ)	AZ0742							
California (CA)	06251CA							
Colorado (CO)	CO01099							
Connecticut (CT)	PH-0232							
Florida (FL)	E87914							
Idaho (ID)	CO01099							
Kansas (KS)	E-10381							
Kentucky (KY)	90137							
L-A-B (DoD ELAP/ISO 170250)	L2257							
Maryland (MD)	285							
Missouri (MO)	175							
Nebraska(NE)	NE-OS-24-13							
Nevada (NV)	CO000782008A							
New Jersey (NJ)	CO003							
New York (NY)	12036							
North Dakota (ND)	R-057							
Oklahoma (OK)	1301							
Pennsylvania (PA)	68-03116							
Tennessee (TN)	2976							
Texas (TX)	T104704241							
Utah (UT)	CO01099							
Washington (WA)	C1280							



## 1504585

#### GC/MS Volatiles:

The sample was analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

#### GRO:

The sample was analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C6 to C10

All matrix spike and matrix spike duplicate recoveries and RPDs were within the acceptance criteria with the following exception:

Spiked Compound	QC Sample	Direction
Gasoline range organics	MS	Low

The recovery for gasoline range organics in the laboratory control sample was within control limits, which suggest the outlier in the matrix spike may have been due to matrix effects. No further action was taken. Laboratory control sample results have been included.

All remaining acceptance criteria were met.

#### DRO:

The sample was analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

#### Ignitability:

The sample was prepared and analyzed based on SW-846, 3<sup>rd</sup> Edition procedures; SW-1010; and the current revision of SOP 629.

All acceptance criteria were met.



# Inorganics:

The sample was analyzed following Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	SOP#
pH	SM4500-H <sup>+</sup> B	1126
TDS	SM2540C	1101
TSS	SM2540D	1100

All acceptance criteria were met.



# Sample Number(s) Cross-Reference Table

**OrderNum:** 1504585

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

Client Project Number: Client PO Number:

Page 1 of 1

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #3	1504585-1		LIQUID	30-Apr-15	11:15

Date Printed: Friday, May 01, 2015

	ALS Laboratory Group  225 Commerce Drive, Fort Collins, Colorado 80524 TF: (860) 443-1511 FH: (970) 490-1511 FX: (970) 490-1	1 522				Chai	n-of-	Cust	ody				Fo	nn 202/8	M	ORKOR	WER OF	15	50	4	58	35
(ALS)		S	AMPLER	B	inden t	laze	1			J. 2.	DATE	= 1			1	e de la composition della comp	PAGE			of	F	
PROJECT NAME	Roygen to Cochboure		SITEID	Ro	ryzen	-0			ीं	URNA	ROUND				11	DISPO	<b>DSAL</b>	Ву	Lab c	or R	etum f	to Clier
PROJECT No.	300	EDD F	ORMAT		07										- 1					$\Box$		
		PURCHASE	ORDER		,			11-														
COMPANY NAME	DCP Midstream	BILL TO CO	MPANY.		1						In							,			•	
SEND REPORT TO		INVOICE A	ATTN TO								15		14			13						
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PHONE			PHONE						BTEX	GRO FRO	ď۳	17										
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E-MAIL			E-MÂIL		Table .				7			- 1						`				
Lab ID	Field ID	Matrix	San Da	nple ate	Sample Time	Bottles	Pres.	ac		Contrator										¥		
	North Tank #3	w	4-30	075	11: 15 am	3	N		16	-		1-11										
		4	1			3		8 8							18				14			
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		<u> </u>	10					8119					LL	لىل		丄		$\perp$			لبل	
	EST CST MST PST Matrix O = oil S = soons, please detail analytes below.	iioa-non ≃ SN lio	solid W=	= water 1	L≈liquid E=e	extract F=	= tiller				SIGNAT	JRE .			PRINTE	D NAME		53	DA	35	* بنار	TIME
Comments:	·	QCPAC	CKAGE (che	ck below)		2.75	LINQUIS		1	uf	2/	Haye		11-30					左	\$ '\	1/	1.30
			LEVELII	(Standard	QC)		RECE	VED BY	E	تلد	eh	<u> </u>	ŧ	JUYS.	Pez	ter	SOY	2	4/30	115	13	40
		1		(Std QC +		RE	LINOUIS	HED BY		1000	antili T				1 1/2				•	1		
			LEVEL IV	(219 QC +	forms +		1 1 1	VED BY	<u> </u>													
3		le.0	2			RE	LINQUIS	HED BY														

RECEIVED BY

Preservative Key:

1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035



# ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

Client: DCP WId5 TECH Workorder No: 15095	1 P8								
Project Manager: ADW Initials: ECP Date	:430	15							
Does this project require any special handling in addition to standard ALS procedures?	YES	(NO)							
2. Are custody seals on shipping containers intact?	YES	NO							
3. Are Custody seals on sample containers intact?	YES	NO							
4. Is there a COC (Chain-of-Custody) present or other representative documents?									
s. Are the COC and bottle labels complete and legible?									
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)	YES	ОИ							
7. Were airbills / shipping documents present and/or removable?	YES	NO							
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	YES	NO							
9. Are all aqueous non-preserved samples pH 4-9?  N/A	YES	NO							
10. Is there sufficient sample for the requested analyses?	YES	NO							
11. Were all samples placed in the proper containers for the requested analyses?	YES	NO							
12. Are all samples within holding times for the requested analyses?	YES	NO							
13. Were all sample containers received intact? (not broken or leaking, etc.)	YES	NO							
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: < green pea > green pea	YES	NO							
15. Do any water samples contain sediment?  Amount of sediment: dusting moderate heavy	YES	NO							
16. Were the samples shipped on ice?	MES	NO							
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: (#2) #4 ONLY	YES	NO							
Cooler #:		G. I							
Temperature (°C): Ila.O®	1 1								
No. of custody seals on cooler: 2									
DOT Survey/ Acceptance Information  External µR/hr reading: NA  Background µR/hr reading: \frac{1}{2}		4.1							
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO/NA) (If no, see Form 00	8.)								
Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT # 15) 1-2  Belivered Same day as collected									
If applicable, was the client contacted? YES / NO / NA Contact:  Project Manager Signature / Date:  Date	/Time:								

Form 201r24.xls (06/04/2012)

\*IR Gun #2: Oakton, SN 29922500201-0066 \*IR Gun #4: Oakton, SN 2372220101-0002

Page 1 of

# SAMPLE SUMMARY REPORT

Client:

DCP Midstream, LP

Project:

Roggen to Lochbuie Hydro-Test

Sample ID:

North Tank #3

**Legal Location:** 

**Collection Date:** 4/30/2015 11:15

**Date:** 01-May-15

**Work Order:** 1504585

**Lab ID:** 1504585-1

Matrix: LIQUID Percent Moisture:

Analyses	Result	Qual	Report Limit	Units Dilution Factor	Date Analyzed
Diesel Range Organics		SW8	015M	Prep Date: 5/1/2015	PrepBy: <b>JFN</b>
Diesel Range Organics	ND		0.73	MG/L 1	5/1/2015 11:40
Surr: O-TERPHENYL	91		54-123	%REC 1	5/1/2015 11:40
Gasoline Range Organics		SW8	015	Prep Date: 4/30/2015	PrepBy: <b>JFN</b>
GASOLINE RANGE ORGANICS	1	GZ	0.1	MG/L 1	4/30/2015 16:32
Surr: 2,3,4-TRIFLUOROTOLUENE	96		74-129	%REC 1	4/30/2015 16:32
GC/MS Volatiles		SW8	260_25	Prep Date: 4/30/2015	PrepBy: <b>SDW</b>
BENZENE	140		10	<b>UG/L</b> 10	4/30/2015 17:35
TOLUENE	280		10	<b>UG/L</b> 10	4/30/2015 17:35
ETHYLBENZENE	7.5		1	UG/L 1	4/30/2015 20:32
M+P-XYLENE	37		1	UG/L 1	4/30/2015 20:32
O-XYLENE	9.2		1	UG/L 1	4/30/2015 20:32
TOTAL XYLENES	46		1	UG/L 1	4/30/2015 20:32
Surr: 4-BROMOFLUOROBENZENE	103		85-115	%REC 1	4/30/2015 20:32
Surr: 4-BROMOFLUOROBENZENE	105		85-115	%REC 10	4/30/2015 17:35
Surr: DIBROMOFLUOROMETHANE	96		84-118	%REC 1	4/30/2015 20:32
Surr: DIBROMOFLUOROMETHANE	94		84-118	%REC 10	4/30/2015 17:35
Surr: TOLUENE-D8	96		85-115	%REC 1	4/30/2015 20:32
Surr: TOLUENE-D8	96		85-115	%REC 10	4/30/2015 17:35
Ignitability		SW1	010	Prep Date: 5/1/2015	PrepBy: <b>BCH</b>
IGNITABILITY	ND		96	deg C 1	5/1/2015
рН		SM4	500-H	Prep Date: 5/1/2015	PrepBy: <b>JAC</b>
РН	7.56		0.1	<b>pH</b> 1	5/1/2015
Total Dissolved Solids		SM2	540C	Prep Date: 4/30/2015	PrepBy: AJD
TOTAL DISSOLVED SOLIDS	1100		40	MG/L 1	5/1/2015
Total Suspended Solids		SM2	540D	Prep Date: 4/30/2015	PrepBy: AJD
TOTAL SUSPENDED SOLIDS	ND		20	MG/L 1	5/1/2015

AR Page 1 of 2 8 of 14

## SAMPLE SUMMARY REPORT

Client:

DCP Midstream, LP

Project:

Analyses

Roggen to Lochbuie Hydro-Test

Sample ID:

North Tank #3

**Legal Location:** 

**Collection Date:** 4/30/2015 11:15

Date: 01-May-15

Work Order: 1504585

Lab ID: 1504585-1

Matrix: LIQUID

**Percent Moisture:** 

Report

Dilution

Result

Qual

Limit Units

**Factor** 

**Date Analyzed** 

### **Explanation of Qualifiers**

### Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

\* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested

MDC.

#### Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

\* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

### Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

\* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:

 gasoline - JP-8

- diesel

- mineral spirits

- motor oil

- Stoddard solvent

- bunker C

AR Page 2 of 2 9 of 14

LIMS Version: 6.760

Client:

DCP Midstream, LP

Work Order:

1504585

Project: Roggen to Lochbuie Hydro-Test

**Date:** 5/1/2015 4:48:4

**QC BATCH REPORT** 

Batch ID: HC150430-62-1 Instrum	nent ID: FU	ELS-1		Method: SI	W8015		Year Street				
DUP Sample ID: 1504585-1				Uı	nits: MG/L		Analysis [	Date:	4/30/201	5 17:55	
Client ID: North Tank #3	Run II	D: <b>HC150430</b> -	6A			Pr	ep Date: <b>4/30/2</b> 0	015	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit		RPD Ref	RPD	RPD Limit	Qua
GASOLINE RANGE ORGANICS	0.968	0.1							1 3		GZ
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0944		0.1		94	74-129		-173			
LCS Sample ID: HC150430-62			7	Uı	nits: MG/L	L HEI	Analysis [	Date:	4/30/201	5 18:37	
Client ID:	Run II	D: <b>HC150430</b> -	6A			Pr	ep Date: <b>4/30/2</b> 0	015	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit		RPD Ref	RPD	RPD Limit	Qua
GASOLINE RANGE ORGANICS	0.453	0.1	0.5		91	79-118				20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.094		0.1		94	74-129					
MB Sample ID: HC150430-62				Uı	nits: MG/L	11.00	Analysis I	Date:	4/30/201	5 16:07	
Client ID:	Run II	D: <b>HC150430</b> -	6A			Pr	ep Date: <b>4/30/2</b> 0	015	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit		RPD Ref	RPD	RPD Limit	Qua
GASOLINE RANGE ORGANICS	ND	0.1									
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0848		0.1	2444	85	74-129				- 14-5	
MS Sample ID: 1504585-1				U	nits: MG/L	*	Analysis [	Date:	4/30/201	15 18:16	
Client ID: North Tank #3	Run II	D: <b>HC150430</b> -	6A			Pr	ep Date: <b>4/30/2</b> 0	015	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit		RPD Ref	RPD	RPD Limit	Qua
GASOLINE RANGE ORGANICS	1.32	0.1	0.5		1 63	79-118				30	*
Surr: 2.3,4-TRIFLUOROTOLUENE	0.0958		0.1		96	74-129					

QC Page: 1 of 5

DCP Midstream, LP

Work Order:

1504585

Project:

Roggen to Lochbuie Hydro-Test

	HC150501-100-												
LCS	Sample ID:	HC150501-100				U	nits: MG/L		Analysi	s Date:	5/1/2015	10:29	
Client ID:			Run II	D: HC150501-	8A			Pr	ep Date: 5/1/2	2015	DF:	1	
			Danit	Donati inst	CDK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
Analyte			Result	ReportLimit	SPK Val		70REC						
Diesel Range	e Organics		9.4	0.728	10.1		93	36-150				20	
Surr: O-TE	ERPHENYL		1		1.01		99	54-123					
LCSD	Sample ID:	HC150501-100		PH		U	nits: MG/L		Analysi	s Date:	5/1/2015	11:04	
Client ID:			Run II	D: <b>HC150501</b> -	8A			Pr	ep Date: <b>5/1/</b> 2	2015	DF:	1	
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
Diesel Rang	e Organics	HT bud	9.3	0.738	10.2		91	36-150		9.	4 1	20	
Surr: O-TE	ERPHENYL	4	0.973		1.02		95	54-123			3		
МВ	Sample ID:	HC150501-100				U	nits: MG/L		Analys	is Date:	5/1/2015	09:53	
Client ID:		LONG THE STREET	Run II	D: <b>HC150501</b> -	-8A			Pr	ep Date: <b>5/1</b> /2	2015	DF:	1	
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
Diesel Rang	e Organics	TOTAL PROPERTY.	ND	0.75	IM III I								
Surr: O-TE	ERPHENYL		0.973		1.04		94	54-123					

DCP Midstream, LP

Work Order:

1504585

Project:

Roggen to Lochbuie Hydro-Test

LCS Sample ID: VL150430-3				11.	nits: %REC		Analysi	s Date: 4	/20/204	E 00.53	
Client ID:	Dun II	D: <b>VL150430-</b>	2 A	Oi	1115. 70 <b>KE</b> C		Anaiysi ep Date: <b>4/30</b>		130/201 DF:		
Client ID.	TXUIT II	J. V 130430*	)A			FI	ер Баке. 4/30	12015	DF.		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
Surr: 4- BROMOFLUOROBENZENE	25.2		25		101	85-115					
Surr: DIBROMOFLUOROMETHANE	23.8	le di	25		95	84-118	190				
Surr: TOLUENE-D8	24		25		96	85-115					
BENZENE	9.82	1	10		98	83-117				20	
TOLUENE	9.77	1	10		98	82-113				20	
THYLBENZENE	9.96	1	10		100	81-113				20	
M+P-XYLENE	19.6	1	20		98	82-115				20	
D-XYLENE	9.8	1	10	11 4 6 7	98	81-115		arth.		20	
CSD Sample ID: VL150430-3				Ur	nits: %REC	;	Analysi	s Date: 4	/30/201	5 10:14	
Client ID:	Run II	D: <b>VL150430-</b> 3	BA			Pre	ep Date: <b>4/30</b>	/2015	DF:	1	
				SPK Ref		Control	Decision	RPD		RPD	
Analyte	Result	ReportLimit	SPK Val	Value	%REC	Limit	Level	Ref	RPD	Limit	Qua
Surr: 4- ROMOFLUOROBENZENE	24.6		25		98	85-115			2		
Surr: DIBROMOFLUOROMETHANE	23.9		25		96	84-118			0		
Surr: TOLUENE-D8	23.8		25		95	85-115			1		
BENZENE	9.8	1	10		98	83-117		9.82	0	20	
OLUENE	9.66	1	10		97	82-113		9.77	1	20	
THYLBENZENE	9.89	1	10		99	81-113		9.96	1	20	
M+P-XYLENE	19.5	1	20		98	82-115		19.6	0	20	
D-XYLENE	9.8	1	10		98	81-115	****	9.8	0	20	
MB Sample ID: VL150430-3				Ur	nits: %REC	·	Analysi	s Date: 4	/30/201	5 11:00	
Client ID:	Run II	D: <b>VL150430</b> -3	BA			Pre	ep Date: <b>4/30</b>	2015	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
Surr: 4- BROMOFLUOROBENZENE	25.8		25		103	85-115					
Surr: DIBROMOFLUOROMETHANE	23.8	-	25		95	84-118					
Surr: TOLUENE-D8	24.1		25		96	85-115					
BENZENE	ND	1			·						
OLUENE	ND	1									
THYLBENZENE	ND	1		1.5%							
//+P-XYLENE	ND	1			·						
D-XYLENE	ND	<u>·</u> 1				8	D:				
TOTAL XYLENES	ND	1									

DCP Midstream, LP

Work Order:

1504585

**Project:** 

Roggen to Lochbuie Hydro-Test

LCS	Sample ID:	TD150430-1		SERVICE		Ur	nits: MG/L		Analysi	s Date:	5/1/2015	•	
Client ID:			Run II	D: <b>TD150501</b> -	1A1			Pre	ep Date: <b>4/30</b>	/2015	DF:	1	
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISS	OLVED SOLIDS		410	20	400		103	85-115				5	
MB	Sample ID:	TD150430-1	8.17=2	EQ		Us	nits: MG/L		Analysi	s Date:	5/1/2015	5	J. T.
Client ID:			Run II	D: <b>TD150501-</b>	1A1			Pre	ep Date: 4/30	/2015	DF:	1	
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISS	OLVED SOLIDS		ND	20									

DCP Midstream, LP

Work Order:

1504585

Project:

Roggen to Lochbuie Hydro-Test

LCS	Sample ID: TS150430-1				Ur	nits: MG/L		Analysi	s Date:	5/1/2015	5	
Client ID:		Run II	D: TS150501-	IA1			Pre	ep Date: <b>4/30</b>	/2015	DF:	1	
Analyte		Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSI	PENDED SOLIDS	462	20	500		92	85-115			dia.	5	
MB	Sample ID: <b>TS150430-1</b>				Ur	nits: MG/L		Analysi	s Date:	5/1/2015	;	
Client ID:		Run II	D: TS150501-	1A1			Pre	ep Date: 4/30	/2015	DF:	1	
Analyte	10	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUST	PENDED SOLIDS	ND	20									



Ft. Collins, Colorado

LIMS Version: 6.761

Page 1 of 1

Thursday, May 07, 2015

Branden Hayes DCP Midstream, LP 3026 4th Avenue Greeley, CO 80631

Re: ALS Workorder: 1505084

Project Name: Roggen to Lochbuie Hydro-Test

Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analysis:

Inorganics

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Edvironmenta Amy R. Wolf

Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environme	ental – Fort Collins
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



## 1505084

Inorganics:

The sample was analyzed following Standard Method procedures for the current revision of the following SOP and method:

Analyte
Specific conductance

Method SM2510B SOP # 1128

All acceptance criteria were met.

## Sample Number(s) Cross-Reference Table

**OrderNum:** 1505084

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

**Client Project Number: Client PO Number:** 

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #3	1505084-1		LIQUID	30-Apr-15	11:15

Page 1 of 1

	ALS Laboratory Group		Chain-of-Cust	ody	WORKORDER	1505084
	225 Commerce Drive, Fort Collins, Colorado 80524 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1	522		Fonn 292r8		aw 5/7/15
(ALS)		SAMPLER B	randen Hages	DATE	PAGE	of
PROJECT NAME	Royces to Carlobour	SITE ID	Oire en	TURNAROUND	DISPOSAL	By Lab or Return to Client
PROJECT No.		EDD FORMAT	7			
		PURCHASE ORDER	•			
COMPANY NAME	DCP Midstream	BILL TO COMPANY.	` .			
SEND REPORT TO		INVOICE ATTN TO				
ADDRESS		ADDRESS				
CITY / STATE / ZIP		CITY/STATE/ZIP				
PHONE		PHONE		CRIC HOLD THE THE THE THE THE THE THE THE THE THE		
FAX		FAX				
E-MAIL		E-MAIL				
42.41.22	Field ID		Samala			
lah m	Fed ID	Matrix Sample Date	Sample Pres OC		100	
		Date	子。在中国的12.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.			
1000年	<b>一种文化的</b>			<del></del>	+	
()	North Tank #3	W 4-30-15	5 11: 15 am 3 N			
Y		1 1	3			
			3			·
		++ ++	<del>                                     </del>		- 9	
	1	+	<del></del>			
V		\		<del>                                     </del>	-	
				<del>                                     </del>		
					2 4 2	
1	•					

"Time Zone (Circle): EST CST MST PST Matrix O = all S = soil NS = non-soil solid W = water L = liquid E = extract F = filter PRINTED NAME SIGNATURE For metals or anions, please detail analytes below. RELINQUISHED BY QC PACKAGE (check below) Comments: RECEIVED B LEVEL II (Standard QC) RELINQUISHED BY LEVEL M (Std QC + forms) LEVEL IV (Std QC + forms + rlaw data) RECEIVED BY 16.0 RELINQUISHED BY 1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035 RECEIVED BY Preservative Key:

		<b>A</b>
4	100	
"		3

# ALS Environmental - Fort Collins

1505084

CONDITION OF SAMPLE UPON RECEIPT FORM	500	,00,	
Client: DCP Midstream Workorder No: 150	458	5 au	U 5/7/1
Project Manager: ARW Initials: ECP	Date:	4 30	15
1. Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
2. Are custody seals on shipping containers intact?	NONE	YES	NO
3. Are Custody seals on sample containers intact?	NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		YES	NO
5. Are the COC and bottle labels complete and legible?		YES	ИО
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		YES	МО
7. Were airbills / shipping documents present and/or removable?	DROP OFF	) YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A)	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		YES	NO
12. Are all samples within holding times for the requested analyses?		YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		YES	МО
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: < green pea > green pea	N/A	YES	МО
15. Do any water samples contain sediment?  Amount	N/A	YES	NO
Amount of sediment:dusting moderateheavy	.1	MES	NO
16. Were the samples shipped on ice?	RAD	YES	(NO)
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4	ONLY	1 00	CNO
Cooler #:			
Temperature (°C): Ila.O ®			
No. of custody seals on cooler:			
DOT Survey, Acceptance External µR/hr reading: NA			. ——
Background μR/hr reading: 13-			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO/ NA) (If no, so	ee Form 008.	)	
Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, E	EXCEPT #1	AND #16.	
			<del></del>
@ Delivered same day as collected			
Relogged for addition of specific Conduction	city. aw 5/7	115	-1
If applicable, was the client contacted? YES / NO / NA Contact:	Date/1	Time:	
Project Manager Signature / Date:			
*IR Gun #2: Oakton: SN 29922500201-0066			

Form 201r24.xls (06/04/2012)

\*IR Gun #2: Oakton, SN 29922500201-0066 \*IR Gun #4: Oakton, SN 2372220101-0002

Page 1 of

## SAMPLE SUMMARY REPORT

Client:

DCP Midstream, LP

Project:

Roggen to Lochbuie Hydro-Test

Sample ID:

North Tank #3

**Legal Location:** 

**Collection Date:** 4/30/2015 11:15

Date: 07-May-15

Work Order: 1505084

Lab ID: 1505084-1

Matrix: LIQUID

Percent Moisture:

**Analyses** 

Result

Qual

Report

Limit Units

Dilution Factor

Date Analyzed

Specific Conductance in Water SPECIFIC CONDUCTIVITY

1617

SM2510B

1 umhos/cm

Prep Date: 5/7/2015

PrepBy: JAC 5/7/2015

## **Explanation of Qualifiers**

### Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits

W - DER is greater than Warning Limit of 1.42

\* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested

MDC

### Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

- Z Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- \* Duplicate analysis (relative percent difference) not within control limits.
- S SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

### Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

- B Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E Analyte concentration exceeds the upper level of the calibration range.
- J Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A A tentatively identified compound is a suspected aldol-condensation product.
- X The analyte was diluted below an accurate quantitation level.
- \* The spike recovery is equal to or outside the control criteria used
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

LIMS Version: 6.761



Ft. Collins, Colorado

LIMS Version: 6.760

Page 1 of 1

Friday, May 01, 2015

Branden Hayes DCP Midstream, LP 3026 4th Avenue Greeley, CO 80631

Re: ALS Workorder: 1504588

Project Name: Roggen to Lochbuie Hydro-Test

Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analyses:

GC/MS Volatiles

Ignitability

Inorganics

Total Extractable Petroleum Hydrocarbons (Diesel)

Total Volatile Petroleum Hydrocarbons (Gasoline)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Singerely,

Project Manager

ADDRESS 225 Commerce Drive, Fort Collins, Colorado, USA 80524 | PHONE +1 970 490 1511 | FAX +1 970 490 1522 ALS GROUP USA, CORP. Part of the ALS Laboratory Group An ALS Limited Company

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environme	ental – Fort Collins
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



## 1504588

### GC/MS Volatiles:

The sample was analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

### GRO:

The sample was analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C6 to C10

All acceptance criteria were met.

### DRO:

The sample was analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

## Ignitability:

The sample was prepared and analyzed based on SW-846, 3<sup>rd</sup> Edition procedures; SW-1010; and the current revision of SOP 629.

All acceptance criteria were met.

### Inorganics:

The sample was analyzed following Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
pH	SM4500-H <sup>+</sup> B	1126
TDS	SM2540C	1101
TSS	SM2540D	1100

All acceptance criteria were met.

# Sample Number(s) Cross-Reference Table

**OrderNum:** 1504588

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

Client Project Number: Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #2	1504588-1		LIQUID	30-Apr-15	10:50

Date Printed: Friday, May 01, 2015

		A		
	1	A	A	
. ;	A	(C)	9	L
1	A	L	_ <	=

## **ALS Laboratory Group**

225 Commerce Drive, Fort Collins, Colorado 80524

Cha	in-of	-Cus	tody
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WUI	<b>CUON</b>	DEK	1
	*		15
	of the same	37 33	

TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522 Form 202r8 DATE SAMPLER Branden TURNAROUND DISPOSAL By Lab or Return to Client SITEID PROJECT NAME EDD FORMAT PROJECT No. PURCHASE ORDER BILL TO COMPANY DCP Wildstram COMPANY NAME INVOICE ATTN TO SEND REPORT TO ADDRESS ADDRESS CITY/STATE/ZIP CITY/STATE/ZIP BTEX GRO PHONE PHONE FAX FAX E-MAIL E-MAIL Sample Sample QC Field ID Matrix Pres. Lab ID Date " Time Bottles 4-30-15 10: Dun 3 3

\*Time Zone (Circle): EST CST MST PST Matrix O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or an	ions, pl	ease del	tail analy	tes belov	v		QC PA	CKAGE (check below)
	٠							LEVEL II (Standard QC)
								LEVEL III (Std QC + forms)
								LEVEL IV (Std QC + forms + raw data)
				1.07	16	60		
Preservative Key:	1-HCI	2-HNO3	3-H2SO4	4-NaOH	5-NaHSO4	7-Oth	st 8~	4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Branden Hayer	4-30-15	llam
RECEIVED BY	Cir Velit	Erin Peterson	4 30 15	1340
RELINQUISHED BY				K.
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

5 of 14



# ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

Client: DCP Midstreum Workorder No: 1504	58	8	
	Date: L	130	[IS
Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
	ONE	YES	NO
	ONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?	1	YES	NO
5. Are the COC and bottle labels complete and legible?		YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		YES	NO
7. Were airbills / shipping documents present and/or removable?	OP OFF	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A)	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	(YES)	NO
10. Is there sufficient sample for the requested analyses?		YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		YES	NO
12. Are all samples within holding times for the requested analyses?		YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble:X < green pea> green pea	N/A	YES	NO
15. Do any water samples contain sediment?  Amount of sediment: dusting moderate heavy	N/A	YES	NO
16. Were the samples shipped on ice?		MES	NO
	RAD	YES	NO
Cooler #:  Temperature (°C): 16.6° (R)  No. of custody seals on cooler:  DOT Survey Acceptance Information  Background µR/hr reading: NA  Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES/NO/NA (If no, see For Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPTION      Heading   PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPTION	-	ND #16.	
If applicable, was the client contacted? YES / NO (NA) 2011(act:	Date/Tir	me:	
Project Manager Signature / Date: 4 30 15			1

Form 201r24.xls (06/04/2012)

\*IR Gun #2: Oakton, SN 299\$2500201-0066
\*IR Gun #4: Oakton, SN 2372220101-0002

Page 1 of

## SAMPLE SUMMARY REPORT

Client:

DCP Midstream, LP

Project:

Roggen to Lochbuie Hydro-Test

Sample ID:

North Tank #2

Legal Location:

**Collection Date:** 4/30/2015 10:50

**Date:** 01-May-15

Work Order: 1504588

Lab ID: 1504588-1

Matrix: LIQUID

**Percent Moisture:** 

Analyses	Result	Qual	Report Limit	TT *4	Dilution Factor	Date Analyzed	
Diesel Range Organics		SW80	)15M	Prep Date	e: 5/1/2015	PrepBy: <b>JFN</b>	
Diesel Range Organics	ND		0.74	MG/L	1	5/1/2015 13:25	
Surr: O-TERPHENYL	90		54-123	%REC	1	5/1/2015 13:25	
Gasoline Range Organics		SW8	)15	Prep Date	e: 4/30/2015	PrepBy: <b>JFN</b>	
GASOLINE RANGE ORGANICS	0.36	GZ	0.1	MG/L	1	4/30/2015 17:34	
Surr: 2,3,4-TRIFLUOROTOLUENE	94		74-129	%REC	1	4/30/2015 17:34	
GC/MS Volatiles		SW8	260_25	Prep Date	e: 4/30/2015	PrepBy: SDW	
BENZENE	44		1	UG/L	1	4/30/2015 20:11	
TOLUENE	86		5	UG/L	5	4/30/2015 18:45	
ETHYLBENZENE	3.1		1	UG/L	1	4/30/2015 20:11	
M+P-XYLENE	14		1	UG/L	1	4/30/2015 20:11	
O-XYLENE	4.8		1	UG/L	1	4/30/2015 20:11	
TOTAL XYLENES	19		1	UG/L	1	4/30/2015 20:11	
Surr: 4-BROMOFLUOROBENZENE	102		85-115	%REC	1	4/30/2015 20:11	
Surr: 4-BROMOFLUOROBENZENE	106		85-115	%REC	5	4/30/2015 18:45	
Surr: DIBROMOFLUOROMETHANE	94		84-118	%REC	1	4/30/2015 20:11	
Surr: DIBROMOFLUOROMETHANE	94		84-118	%REC	5	4/30/2015 18:45	
Surr: TOLUENE-D8	96		85-115	%REC	1	4/30/2015 20:11	
Surr: TOLUENE-D8	98		85-115	%REC	5	4/30/2015 18:45	
Ignitability		SW1	010	Prep Date	e: 5/1/2015	PrepBy: <b>BCH</b>	
IGNITABILITY	ND		96	deg C	1	5/1/2015	
На		SM45	500-H	Prep Date	e: 5/1/2015	PrepBy: <b>JAC</b>	
PH	7.93		0.1	рH	1	5/1/2015	
Total Dissolved Solids TOTAL DISSOLVED SOLIDS	1100	SM25	540C 40	Prep Date	e: 4/30/2015	PrepBy: <b>AJD</b> 5/1/2015	
	1100	0	-		The sales of a		
Total Suspended Solids TOTAL SUSPENDED SOLIDS	120	SM25	540D 20	MG/L	e: <b>4/30/2015</b> 1	PrepBy: <b>AJD</b> 5/1/2015	

AR Page 1 of 2 7 of 14

## SAMPLE SUMMARY REPORT

Client:

DCP Midstream, LP

Date: 01-May-15

Project:

Roggen to Lochbuie Hydro-Test

Work Order: 1504588

Sample ID:

Lab ID: 1504588-1

**Legal Location:** 

North Tank #2

Matrix: LIQUID

**Collection Date:** 4/30/2015 10:50

Percent Moisture:

Report

Dilution

Analyses

Result

Qual

Limit Units

**Factor** 

**Date Analyzed** 

### **Explanation of Qualifiers**

#### Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits

W - DER is greater than Warning Limit of 1.42

\* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested

#### Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

\* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

\* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:

- gasoline

- JP-8 - diesel

- mineral spirits

- motor oil

- Stoddard solvent

- bunker C

Client:

DCP Midstream, LP

Work Order:

1504588

Project:

Roggen to Lochbuie Hydro-Test

**Date:** 5/1/2015 5:03:3

Batch ID: EX150501-2-1 In	strument ID: PN	1-Flash		Method: SI	W1010		Class?	M EDW	Own		
DUP Sample ID: 1504588-1				Uı	nits: <b>deg C</b>	T repri	Analys	is Date:	5/1/201	5	
Client ID: North Tank #2	Run II	D: <b>EX150501</b> -	2A			Pre	ep Date: <b>5/1/</b>	2015	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
IGNITABILITY	ND	96.5						91	3		
The following samples were analyzed	l in this batch:	15045	588-1				Spil DE		3-9		

DCP Midstream, LP

Work Order:

1504588

Project:

Roggen to Lochbuie Hydro-Test

Batch ID: H	IC150430-62-1	Instrume	ent ID: <b>FU</b>	ELS-1		Method: SI	N8015					-	
LCS	Sample ID: HC18	50430-62		FIGHT SAME	Units: MG/L				Analysi	s Date:	4/30/201		
Client ID:			Run II	D: HC150430-	6A			Pre	ep Date: 4/30	/2015	DF:	1	
Analyte	(1.45): a	etaeli nua g	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
040011415	RANGE ORGANICS		0.453	0.1	0.5		91	79-118				20	
GASOLINE F	O HOL OHO HIDO												
	-TRIFLUOROTOLUENE	E	0.094		0.1		94	74-129					
			0.094		0.1	Table U	94 nits: <b>MG/L</b>	74-129	Analysi	s Date:	4/30/201	15 16:07	<u></u>
Surr: 2,3,4-	-TRIFLUOROTOLUENE			D: <b>HC150430</b> -		U			Analysi		<b>4/30/20</b> 1 DF:		x 1 .33
Surr: 2,3,4-	-TRIFLUOROTOLUENE			D: <b>HC150430</b> -		SPK Ref Value							Qual
Surr: 2,3,4- MB Client ID: Analyte	-TRIFLUOROTOLUENE		Run II		6A	SPK Ref	nits: MG/L	Pre	ep Date: 4/30	<b>/2015</b> RPD	DF:	1 RPD	Qual

DCP Midstream, LP

Work Order:

1504588

Project:

Roggen to Lochbuie Hydro-Test

Batch ID: HC150501-100-1 Instrument ID: FUELS-1 Method: SW8015M LCS Sample ID: HC150501-100 Units: MG/L Analysis Date: 5/1/2015 10:29 Client ID: Run ID: HC150501-8A Prep Date: 5/1/2015 DF: 1 SPK Ref Control **RPD** Decision RPD Value Level Limit SPK Val Limit Ref RPD Qual ReportLimit %REC Result Analyte 9.4 0.728 10.1 93 36-150 20 Diesel Range Organics Surr: O-TERPHENYL 1.01 54-123 99 Analysis Date: 5/1/2015 11:04 Sample ID: HC150501-100 Units: MG/L LCSD Run ID: HC150501-8A Prep Date: 5/1/2015 Client ID: DF: 1 RPD SPK Ref Control Decision RPD Value Limit Level Ref Limit RPD %REC Qual Analyte Result ReportLimit SPK Val 9.3 Diesel Range Organics 0.738 10.2 91 36-150 9.4 1 20 Surr: O-TERPHENYL 0.973 54-123 3 1.02 95 Sample ID: HC150501-100 Units: MG/L Analysis Date: 5/1/2015 09:53 MB Client ID: Run ID: HC150501-8A Prep Date: 5/1/2015 DF: 1 **RPD** SPK Ref Control Decision RPD Value Limit Level Ref Limit %REC RPD Qual Result ReportLimit SPK Val Analyte ND Diesel Range Organics 0.75 Surr: O-TERPHENYL 0.973 1.04 94 54-123 1504588-1 The following samples were analyzed in this batch:

DCP Midstream, LP

Work Order:

1504588

Project:

Roggen to Lochbuie Hydro-Test

LCS Sample ID: VL150430-3				Ur	its: %REC	;	Analysi	s Date: 4	/30/201	5 09:53	
Client ID:	Run II	D: <b>VL150430-3</b>	3A			Pre	ep Date: <b>4/30</b>	/2015	DF:	1	
				SPK Ref		Control	Decision	RPD		RPD	
Analyte	Result	ReportLimit	SPK Val	Value	%REC	Limit	Level	Ref	RPD	Limit	Qual
Surr: 4- ROMOFLUOROBENZENE	25.2		25		101	85-115					
Surr: DIBROMOFLUOROMETHANE	23.8		25		95	84-118					
Surr: TOLUENE-D8	24	+1/2	25		96	85-115					
BENZENE	9.82	1	10		98	83-117				20	
OLUENE	9.77	1	10		98	82-113				20	
THYLBENZENE	9.96	1	10	21 7	100	81-113				20	
M+P-XYLENE	19.6	1	20		98	82-115				20	
D-XYLENE	9.8	1	10		98	81-115				20	
CSD Sample ID: VL150430-3				Ur	nits: %REC	;	Analysi	s Date: 4	/30/201	5 10:14	
Client ID:	Run II	D: <b>VL150430-</b> 3	BA			Pro	ep Date: 4/30	/2015	DF:	1	
				SPK Ref		Control	Decision	RPD		RPD	
Analyte	Result	ReportLimit	SPK Val	Value	%REC	Limit	Level	Ref	RPD	Limit	Qua
Surr: 4-	24.6		25		98	85-115			2		
Surr: DIBROMOFLUOROMETHANE	23.9	_14	25		96	84-118			0		
Surr: TOLUENE-D8	23.8		25		95	85-115	41 1 2 2 7 1	90-11	1		
BENZENE	9.8	1	10		98	83-117		9.82	0	20	
OLUENE	9.66	1	10		97	82-113		9.77	1	20	
THYLBENZENE	9.89	1	10		99	81-113		9.96	1	20	
M+P-XYLENE	19.5	1	20		98	82-115	~	19.6	0	20	
D-XYLENE	9.8	1	10		98	81-115		9.8	0	20	
MB Sample ID: VL150430-3				Ur	nits: %RE0	3	Analysi	s Date: 4	/30/201	5 11:00	
Client ID:	Run II	D: <b>VL150430</b> -3	ВА			Pr	ep Date: <b>4/30</b>	/2015	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
Surr: 4- BROMOFLUOROBENZENE	25.8		25		103	85-115					
Surr:	23.8		25		95	84-118					
DIBROMOFLUOROMETHANE Surr: TOLUENE-D8	24.1		25		96	85-115					
BENZENE	ND	1									
OLUENE	ND	1									
THYLBENZENE	ND	1									
// A+P-XYLENE	ND	1									
D-XYLENE	ND	<u>.</u> 1									
OTAL XYLENES	ND	1		.,			,,				

DCP Midstream, LP

Work Order:

1504588

**Project:** 

Roggen to Lochbuie Hydro-Test

DUP	Sample ID:	1504588-1				U	nits: MG/L		Analysi	is Date:	5/1/2015		
Client ID: N	lorth Tank #2		Run II	D: <b>TD150501-</b>	1A1			Pre	ep Date: <b>4/30</b>	/2015	DF:	1	
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISS	OLVED SOLIDS	1 -	1120	40	4				_	110	0 2	5	
LCS	Sample ID:	TD150430-1		77		U	nits: MG/L		Analysi	is Date:	5/1/2015		
Client ID:			Run I	D: <b>TD150501-</b>	1A1			Pre	ep Date: <b>4/30</b>	/2015	DF:	1	
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
TOTAL DISS	SOLVED SOLIDS		410	20	400		103	85-115				5	
MB	Sample ID:	TD150430-1				U	nits: MG/L		Analysi	is Date:	5/1/2015		
Client ID:			Run I	D: <b>TD150501</b> -	1A1			Pre	ep Date: <b>4/30</b>	/2015	DF:	1	
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qua
	SOLVED SOLIDS		ND	20									

DCP Midstream, LP

Work Order:

1504588

Project:

Roggen to Lochbuie Hydro-Test

DUP	Sample ID: 1	504588-1		IMBUZ e L		Uı	nits: MG/L		Analysi	s Date:	5/1/2015	5	- 1
	lorth Tank #2	0.92001-000	Run II	D: <b>TS150501</b> -	1A1			Pre	ep Date: <b>4/30</b>	/2015	DF:	1	
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSI	PENDED SOLIDS		128	20						12	0 2	5	
LCS	Sample ID: T	S150430-1		2000		Ui	nits: MG/L		Analysi	s Date:	5/1/2015	5	
Client ID:			Run II	D: <b>TS150501</b> -	1A1			Pre	ep Date: <b>4/30</b>	/2015	DF:	. 1	
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSI	PENDED SOLIDS		462	20	500		92	85-115				5	
МВ	Sample ID: <b>T</b>	S150430-1		[12]		U	nits: <b>MG/L</b>		Analys	is Date:	5/1/201	5	T
Client ID:			Run II	D: TS150501-	1A1			Pro	ep Date: <b>4/30</b>	/2015	DF:	: 1	
Analyte			Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
				-									



Ft. Collins, Colorado

LIMS Version: 6.761

Page 1 of 1

Thursday, May 07, 2015

Branden Hayes DCP Midstream, LP 3026 4th Avenue Greeley, CO 80631

Re: ALS Workorder: 1505087

Project Name: Roggen to Lochbuie Hydro-Test

Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analysis:

Inorganics

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely.

Amy R. Wolf

Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins							
Accreditation Body	License or Certification Number						
Alaska (AK)	UST-086						
Alaska (AK)	CO01099						
Arizona (AZ)	AZ0742						
California (CA)	06251CA						
Colorado (CO)	CO01099						
Connecticut (CT)	PH-0232						
Florida (FL)	E87914						
Idaho (ID)	CO01099						
Kansas (KS)	E-10381						
Kentucky (KY)	90137						
L-A-B (DoD ELAP/ISO 170250)	L2257						
Maryland (MD)	285						
Missouri (MO)	175						
Nebraska(NE)	NE-OS-24-13						
Nevada (NV)	CO000782008A						
New Jersey (NJ)	CO003						
New York (NY)	12036						
North Dakota (ND)	R-057						
Oklahoma (OK)	1301						
Pennsylvania (PA)	68-03116						
Tennessee (TN)	2976						
Texas (TX)	T104704241						
Utah (UT)	CO01099						
Washington (WA)	C1280						



# 1505087

## Inorganics:

The sample was analyzed following Standard Method procedures for the current revision of the following SOP and method:

Analyte Specific conductance

Method SM2510B SOP # 1128

All acceptance criteria were met.

## Sample Number(s) Cross-Reference Table

**OrderNum:** 1505087

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

Client Project Number: Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #2	1505087-1		LIQUID	30-Apr-15	10:50

Date Printed: Thursday, May 07, 2015

DATE

TIME

1	AIS

## **ALS Laboratory Group**

225 Commerce Drive, Fort Collins, Colorado 80524 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Cus	tody
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	Form 202r8	WORKORDER	150458
a i name	****	DACE	of /

(ALS)						DATE				PAGE					
PROJECT NAME	Roggen to Lochboure	10.00	STEID Z	iaen hu	dro			्र <sub>ा</sub> ग	URNA	ROU	ND.		DISPOSAL	By Lab or	Return to Client
PROJECT No.	110000	EDD FO	RMAT	7											
		PURCHASE (	ORDER												
	DCP Middleam	BILL TO COI	IPANY					ı			S				
SEND REPORT TO		INVOICE							- [		135	+			
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PHONE			PHONE	,				<b>BTEX</b>	GBO	g		Ignitabilit			
FAX							_	8	3	9	剒	12			
E-MAIL		34	E-MAIL.		T		. S. S.	_	-	_	$\dashv$				<del></del>
Lab ID	Field ID	Matrix	Sample Date	Sample Time	Bottles										
(1)	North Tank #2	W	4-30-15	10: Dun	3	N		χ							
	7 907 102 103 103		1.0		3		J. Fi		X						
		E I			3					X	П		- 5 8		
					1		_			_	X				
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\*Time Zone (Circle): EST CST MST PST Matrix O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter SIGNATURE PRINTED NAME For metals or anions, please detail analytes below. RELINQUISHED BY QC PACKAGE (check helow) Comments: RECEIVED B LEVEL II (Standard QC) LEVEL III (Std QC + forms) RELINQUISHED BY LEVEL IV (8td QC + forms RECEIVED BY caw data) 16.60 RELINQUISHED BY 1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035 RECEIVED BY

Preservative Key:

		-		
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# **ALS Environmental - Fort Collins**

CONDITION OF SAMPLE UPON RECEIPT FORM	_	2 UO 7	
client: DCP Midstream Workorder No: 150	458	38-a	N5/1
Project Manager: ARW Initials: ECP	Date:	4 30	15
Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
Are custody seals on shipping containers intact?	NONE	YES	NO
Are Custody seals on sample containers intact?	NONE	YES	NO
Is there a COC (Chain-of-Custody) present or other representative documents?		YES	NO
Are the COC and bottle labels complete and legible?		YES	NO
Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		YES	NO
Were airbills / shipping documents present and/or removable?	DROP OFF	YES	NO
Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A)	YES	NO
Are all aqueous non-preserved samples pH 4-9?	N/A	YES	NO
D. Is there sufficient sample for the requested analyses?		YES	NO
Were all samples placed in the proper containers for the requested analyses?		YES	NO
2. Are all samples within holding times for the requested analyses?		YES	NO
3. Were all sample containers received intact? (not broken or leaking, etc.)		YES	NO
4. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: X < green pea > green pea	N/A	YES	NO
s. Do any water samples contain sediment?  Amount of sediment: dusting moderate heavy	N/A	YES	NO
6. Were the samples shipped on ice?		MES	NO
7. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4	RAD	YES	NO
Cooler #:  Temperature (°C): 1/e, 10° (₹)  No. of custody seals on cooler:  Dot Survey Acceptance Information  External μR/hr reading: NA  Background μR/hr reading: 10-  Were external μR/hr readings ≤ two times background and within DOT acceptance criteria? YES/NO/NA) (If no, so Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EN 1-1, 1-2  Relogged for Specific Cooling and Collected.	EXCEPT #1 /	) and #16. adit ectivit	zisza (y.
### Gun #2: Oakton, SN 29992500201-0066  Form 201r24.xls (06/04/2012)  ###################################	Date/T		
		Page 1	VI_L

### SAMPLE SUMMARY REPORT

Client:

DCP Midstream, LP

Project:

Roggen to Lochbuie Hydro-Test

Sample ID:

North Tank #2

**Legal Location:** 

Collection Date: 4/30/2015 10:50

**Date:** 07-May-15

Work Order: 1505087

Lab ID: 1505087-1

Matrix: LIQUID

Percent Moisture:

Analyses

Result

Qual

Report Limit Units

Dilution **Factor** 

**Date Analyzed** 

Specific Conductance in Water SPECIFIC CONDUCTIVITY

1666

SM2510B

Prep Date: 5/7/2015 1 umhos/cm

PrepBy: JAC 5/7/2015

## **Explanation of Qualifiers**

### Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits

W - DER is greater than Warning Limit of 1.42

\* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC

B3 - Analyte concentration greater than MDC but less than Requested

MDC

### Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

### Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

- B Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E Analyte concentration exceeds the upper level of the calibration range.
- J Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A A tentatively identified compound is a suspected aldol-condensation product.
- X The analyte was diluted below an accurate quantitation level.
- \* The spike recovery is equal to or outside the control criteria used
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8 - diesel
- mineral spirits
- motor oil - Stoddard solvent
- bunker C

LIMS Version: 6.761

	Samp	ing Info	R	( code	Bus. Unit
Hidshir H th 1ey, co 539-1	eam Avenuc 80631 908 cpmidstrea	AFE: 3 ( S Project: Wa Location: Woo Sampled by: T Temperature:	10097 1 Henburg P: PR 18 1,5 Paul Park 64° F	L224 ipeliue miles	Hydrotest east of Koemesbur
Sample ID	Date Sampled	Time	Analysis Requested	Comments	0
		8150 eu	Specific Cravil	f4.	11.5 API
		9:00 00	Specific Gravita	4	1100 API
			1	4	
1					
	mid South	Midstream H th Avenue 184 CO 80631 -539-1908  Parkedepmidstrea  Sample ID Date Sampled  Mid South 6-4-15  For South 6-4-15	mid South 6-4-19 8150 en	mid South 6-4-19 81 50 and Specific Cinui	mich South 6-4-15 8:50 am Specific Cravity

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by:	THE FAL	DCP Mids	tream 6-4-15	10120am
Received by:	Well I am	XP Kowst	man 6-4-15	10:20am
Relinquished by:	Wills	KPK	6-415	2:40 pm
Received by:	-4//_~	14%	6/4/15	14:40
Relinquished by:	7.0			
Received by:				
Relinquished by:				
Received by:				

SG = 141.5 BIST + API GRAVITY TANK \$3 = 0.9895

TANKAY = 0.9929

## WATTENBERG DISPOSAL, LLC

WORLD TRADE CENTER

1675 BROADWAY, 28<sup>TH</sup> FLOOR

DENVER, COLORADO 80202-4628

TELEPHONE (303) 825-4822

FACSIMILE (303) 825-4825

WWW.KPK.COM

February 25, 2015

Linda Bowling
Technical Enforcement Program – UIC
U.S. Environmental Protection Agency Region 8
1595 Wynkoop Street, Mail code 8ENF-W
Denver, CO 80202-1129

RE: Wattenberg Disposal, LLC

Class I Non-Hazardous Waste Disposal Well Permit No. CO10938-02115

Dear Ms. Bowling;

Wattenberg Disposal, LLC is submitting water source analyses from facilities with new formation Class II fluids that will be disposed of at the Suckla Farms #1 disposal well. These facilities include:

2) 3) 4) 5)	Noel #3-18 Koester #3-33-3 Pace Connelly #3 & 8 Briggs #1 Uprr 42 Pan Am N #4 Baurer/Eiberger	Location NENW S18 T4N R65W NENW S33 T4N R67W NWSE S27 T2N R68W NESW S25 T1N R67W SWSW S17 T1N R67W NENE S36 T1N R67W
6)	Baurer/Eiberger	INDIAD DEG XIII

All facilities listed above are exploration and production well site tank batteries owned and operated by K.P. Kauffman Company, Inc. The waste fluid being disposed of is produced water, which has been separated from the comingled liquid stream produced from each facility's associated wellhead(s).

Pursuant to Permit No. CO10938-02115 Section 5.a.(ii), the permittee shall submit a request for disposal of fluids from any new source waters. The request must be accompanied by water analysis consisting of at least total dissolved solids, pH, specific gravity, and specific conductivity.

A water Analysis is attached for each new produced waste fluid. Wattenberg Disposal, LLC submits these sources for disposal approval.

If you have any questions or comments, please contact me at (303) 825-4822 or at slaramesa@kpk.com.

Sincerely,

Wattenberg Disposal, LLC

Susana Lara-Mesa

Vice President of Engineering

Enclosures: New Source Waters Analyses

cc: KPK files



01/27/15





## **Technical Report for**

K.P. Kauffman Company, Inc.

Wattenberg Disposal Source Sampling

Accutest Job Number: D66856

Sampling Date: 01/21/15

## Report to:

K.P. Kauffman Company, Inc. 1675 Broadway Suite 2800 Denver, CO 80202-4628 mhattel@msn.com; slaramesa@kpk.com

ATTN: Susana Lara-Mesa

Total number of pages in report: 22



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman Laboratory Director

Seed wall

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), TX (T104704511)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

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## Sample Summary

K.P. Kauffman Company, Inc.

Wattenberg Disposal Source Sampling

Job No:

D66856

Sample Number	Collected Date T	ime By	Received	Matri Code		Client Sample ID
D66856-1	01/21/15 09	9:45 MK	01/21/15	AQ	Water	OCOMA
D66856-2	01/21/15 10	0:20 MK	01/21/15	AQ	Water	NOEL #3-18
D66856-3	01/21/15 10	0:55 MK	01/21/15	AQ	Water	JACK C NOEL
D66856-4	01/21/15 13	1:20 MK	01/21/15	AQ	Water	KOESTER #3-33-3
D66856-5	01/21/15 12	2:45 MK	01/21/15	AQ	Water	PACE CONNELLY 3&8
D66856-6	01/21/15 1	3:50 MK	01/21/15	AQ	Water	BRIGGS
D66856-7	01/21/15 1	3:20 MK	01/21/15	AQ	Water	UPRR 42 PAN AM N#4
D66856-8	01/21/15 1	4:30 MK	01/21/15	AQ	Water	BOURER/GIBERGER



### CASE NARRATIVE / CONFORMANCE SUMMARY

Client:

K.P. Kauffman Company, Inc.

Job No

D66856

Site:

Wattenberg Disposal Source Sampling

Report Date

1/27/2015 4:58:35 PM

On 01/21/2015, 8 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 15.3 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D66856 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

#### Wet Chemistry By Method ASTM D287

Matrix: ALL

Batch ID:

GN28362

The data for ASTM D287 meets quality control requirements.

#### Wet Chemistry By Method SM 2510B-2011

Matrix: AQ

Batch ID:

GP14481

Sample(s) D66856-2DUP were used as the QC samples for the Specific Conductivity analysis.

### Wet Chemistry By Method SM 2540C-2011

Matrix: AQ

Batch ID:

GN28371

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D66880-1ADUP were used as the QC samples for the Solids, Total Dissolved analysis.

#### Wet Chemistry By Method SM4500HB+-2011/9040C

Matrix: AQ

Batch ID:

GN28372

The following samples were run outside of holding time for method SM4500HB+-2011/9040C: D66856-2, D66856-4, D66856-5, D66856-6, D66856-7, D66856-8 Analysis performed past the required 15 minutes from collection time/holding time.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Summary of Hits
Job Number: D66856
Account: K.P. Kauffman Company, Inc.
Project: Wattenberg Disposal Source Sampling

Collected:

01/21/15

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
D66856-1 OCOMA			WILLST		8
Specific Gravity by Hydrometer	0.70860				ASTM D287
D66856-2 NOEL #3-18					
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydrometer pH <sup>a</sup>	3580 5550 1.0050 6.34	10 1.0		mg/l umhos/cm su	SM 2540C-2011 SM 2510B-2011 ASTM D287 SM4500HB+-2011/9040C
D66856-3 JACK C NOEL					
Specific Gravity by Hydrometer	0.67030				ASTM D287
D66856-4 KOESTER #3-33	-3				
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydrometer pH <sup>a</sup>	25500 35000 1.0151 6.17	10 1.0		mg/l umhos/cm su	SM 2540C-2011 SM 2510B-2011 ASTM D287 SM4500HB+-2011/9040C
D66856-5 PACE CONNELL	LY 3&8				
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydrometer pH <sup>a</sup>	18800 27500 1.0107 6.75	10 1.0		mg/l umhos/cm	SM 2540C-2011 SM 2510B-2011 ASTM D287 SM4500HB+-2011/9040C
D66856-6 BRIGGS					
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydrometer pH <sup>a</sup>	24700 33700 1.0136 7.06	10 1.0		mg/l umhos/cm	SM 2540C-2011 SM 2510B-2011 ASTM D287 SM4500HB+-2011/9040C
D66856-7 UPRR 42 PAN A	M N#4				
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydrometer pH <sup>a</sup>	20400 28200 1.0122 7.06	10 1.0		mg/l umhos/cm su	SM 2540C-2011 SM 2510B-2011 ASTM D287 SM4500HB+-2011/9040C

Summary of Hits Job Number: D66856

Account:

K.P. Kauffman Company, Inc.

Project:

Wattenberg Disposal Source Sampling

Collected:

01/21/15

Lab Sample ID Client Sample II Analyte	Result/ Qual	RL	MDL	Units	Method
D66856-8 BOURER/GIBE	RGER				
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydrometer pH <sup>a</sup>	24200 34100 1.0136 6.83	10 1.0		mg/l umhos/cm	SM 2540C-2011 SM 2510B-2011 ASTM D287 SM4500HB+-2011/9040C

<sup>(</sup>a) Analysis performed past the required 15 minutes from collection time/holding time.



Sample Results	
Report of Analysis	

Client Sample ID: Lab Sample ID:

**OCOMA** 

D66856-1

Date Sampled: Date Received: 01/21/15

01/21/15

Matrix:

AQ - Water

Project:

Wattenberg Disposal Source Sampling

Percent Solids: n/a

General Chemistry

Analyte

Result

RL

Units

DF Analyzed

Method

Specific Gravity by Hydromete 0.70860

1

01/23/15

MMASTM D287

## Report of Analysis

Client Sample ID: NOEL #3-18 Lab Sample ID: D66856-2 Matrix: AQ - Water

Date Sampled: 01/21/15 Date Received: 01/21/15

Percent Solids: n/a

Project:

Wattenberg Disposal Source Sampling

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydromet	3580 5550 e 1.0050	10 1.0	mg/l umhos/cm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	01/26/15 01/23/15 01/23/15	JF TJ MM	SM 2540C-2011 SM 2510B-2011 ASTM D287
pH <sup>a</sup>	6.34		su	1	01/23/15 13:00	TB	SM4500HB+-2011/9040C

ASTM D287

Client Sample ID: JACK C NOEL Lab Sample ID:

D66856-3

AQ - Water

Date Sampled: 01/21/15 Date Received: 01/21/15

Percent Solids: n/a

Project:

Matrix:

Wattenberg Disposal Source Sampling

General Chemistry

Analyte Result RLUnits DF Analyzed Method

Specific Gravity by Hydromete 0.67030 1 01/23/15

## Report of Analysis

Client Sample ID: KOESTER #3-33-3 Lab Sample ID: D66856-4

Matrix:

AQ - Water

Date Sampled: 01/21/15 Date Received: 01/21/15

Percent Solids: n/a

Project:

Wattenberg Disposal Source Sampling

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydromet pH <sup>a</sup>	25500 35000 te 1.0151 6.17	10 1.0	mg/l umhos/cm su	1 1 1	01/26/15 01/23/15 01/23/15 01/23/15 13:00	JF TJ MM TB	SM 2540C-2011 SM 2510B-2011 ASTM D287 SM4500HB+-2011/9040C

Client Sample ID: PACE CONNELLY 3&8

Lab Sample ID:

D66856-5

Date Sampled: 01/21/15

Matrix:

AQ - Water

Date Received: 01/21/15

Project:

Wattenberg Disposal Source Sampling

Percent Solids: n/a

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydromet	18800 27500	10 1.0	mg/l umhos/cm	1 1	01/26/15 01/23/15 01/23/15	JF TJ MM	SM 2540C-2011 SM 2510B-2011 ASTM D287
pH a	6.75		su	1	01/23/15 13:00		SM4500HB+-2011/9040C

Client Sample ID: BRIGGS Lab Sample ID: D66856-6

D66856-6

AQ - Water

Date Sampled: 01/21/15 Date Received: 01/21/15

Project:

Matrix:

Wattenberg Disposal Source Sampling

Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydromete pH <sup>a</sup>	24700 33700 e 1.0136 7.06	10 1.0	mg/l umhos/cm su	1 1 1 1	01/26/15 01/23/15 01/23/15 01/23/15 13:00	JF TJ MM TB	SM 2540C-2011 SM 2510B-2011 ASTM D287 SM4500HB+-2011/9040C

Client Sample ID: UPRR 42 PAN AM N#4

Lab Sample ID:

D66856-7

Date Sampled:

01/21/15

Matrix:

AQ - Water

Project:

Wattenberg Disposal Source Sampling

Date Received: 01/21/15 Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydromete pH <sup>a</sup>	20400 28200 2 1.0122 7.06	10 1.0	mg/l umhos/cm su	1 1 1 1	01/26/15 01/23/15 01/23/15 01/23/15 13:00	JF TJ MM TB	SM 2540C-2011 SM 2510B-2011 ASTM D287 SM4500HB+-2011/9040C

Client Sample ID: BOURER/GIBERGER

Lab Sample ID:

D66856-8

Date Sampled: 01/21/15

Matrix:

AQ - Water

Date Received: 01/21/15

Project:

Wattenberg Disposal Source Sampling

Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydromete pH <sup>a</sup>	24200 34100 1.0136 6.83	10 1.0	mg/l umhos/cm su	1 1 1	01/26/15 01/23/15 01/23/15 01/23/15 13:00	JF TJ MM TB	SM 2540C-2011 SM 2510B-2011 ASTM D287 SM4500HB+-2011/9040C



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1/21/2015, 15:25

Date Time:

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Project Manager

**DENVER, CO 80202** Susana Lara-Mesa

OCOMA.

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3 Day Emergency
Day Emergency

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Page 1 of 3

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D66856: Chain of Custody

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TO 80



## **Accutest Laboratories Sample Receipt Summary**

Accutest Job Number:	D66856	Client: KPK		Project:		
Date / Time Received:	1/21/2015 3:25:00	PM Delivery	Method:	Airbill #'s: HD		
Cooler Temps (Initial/Ad	justed): <u>#1: (15.3</u>	/15.3):				
Cooler Security  1. Custody Seals Present: 2. Custody Seals Intact:  Cooler Temperature  1. Temp criteria achieved: 2. Cooler temp verification: 3. Cooler media: 4. No. Coolers:	✓	<u>;</u>	Y or N ✓ □	Sample Integrity - Documentation  1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree:  Sample Integrity - Condition  1. Sample recvd within HT: 2. All containers accounted for: 3. Condition of sample:	Y or  V  Y  V  V  Inta	
Quality Control Preserv  1. Trip Blank present / cool  2. Trip Blank listed on COC  3. Samples preserved prop  4. VOCs headspace free:	er:			Sample Integrity - Instructions  1. Analysis requested is clear:  2. Bottles received for unspecified tests  3. Sufficient volume recvd for analysis:  4. Compositing instructions clear:  5. Filtering instructions clear:	Y or  ✓  □  ✓	N N/A  V  V  V  V  V  V

Accutest Laboratories V:(303) 425-6021

Comments

4036 Youngfield Street F: (303) 425-6854 Wheat Ridge, CO www/accutest.com

D66856: Chain of Custody

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General	Chemistry		
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		, , , , , , , , , , , , , , , , , , ,	

**QC Data Summaries** 

## Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries



#### METHOD BLANK AND SPIKE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: D66856

Account: KPKCOD - K.P. Kauffman Company, Inc. Project: Wattenberg Disposal Source Sampling

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved Specific Conductivity pH	GN28371 GP14481/GN28361 GN28372	10	0.0	mg/l umhos/cm su	400 99.4 8.00	404 98.2 7.98	101.0 98.8 99.8	90-110% 90-110% 99.1-100

Associated Samples:
Batch GN28371: D66856-2, D66856-4, D66856-5, D66856-6, D66856-7, D66856-8
Batch GN28372: D66856-2, D66856-4, D66856-5, D66856-6, D66856-7, D66856-8
Batch GP14481: D66856-2, D66856-4, D66856-5, D66856-6, D66856-7, D66856-8
(\*) Outside of QC limits



#### DUPLICATE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: D66856 Account: KPKCOD - K.P. Kauffman Company, Inc. Project: Wattenberg Disposal Source Sampling

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN28371	D66880-1A	mg/l	9480	9460	0.2	0-20%
Specific Conductivity	GP14481/GN28361	D66856-2	umhos/cm	5550	5570	0.4	0-20%

Associated Samples:

Batch GN28371: D66856-2, D66856-4, D66856-5, D66856-6, D66856-7, D66856-8 Batch GP14481: D66856-2, D66856-4, D66856-5, D66856-6, D66856-7, D66856-8 (\*) Outside of QC limits



03/16/15





## **Technical Report for**

K.P. Kauffman Company, Inc.

Wattenberg Source Water

Accutest Job Number: D68414

Sampling Date: 03/10/15

## Report to:

Apex Consulting Services PO Box 369 Louisville, CO 80027-0369 slaramesa@kpk.com

ATTN: Susana Lara-Mesa

Total number of pages in report: 14



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman Laboratory Director

Seed walk

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), TX (T104704511)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

## **Sections:**

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<b>4.2:</b> D68414-2: OCOMD	
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## Sample Summary

K.P. Kauffman Company, Inc.

Wattenberg Source Water

Job No:

D68414

Sample Number	Collected Date Time By	Matrix Received Code Type	Client Sample ID
D68414-1	03/10/15 09:35 MK	03/10/15 AQ Water	JACK C NOEL
D68414-2	03/10/15 10:45 MK	03/10/15 AQ Water	OCOMD





### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: K.P. Kauffman Company, Inc.

Job No

D68414

Site:

Wattenberg GW

Report Date

3/16/2015 11:27:14 A

On 03/10/2015, 2 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 41.3 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D68414 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

## Wet Chemistry By Method ASTM D287

Matrix: ALL

Batch ID: GN29048

The data for ASTM D287 meets quality control requirements.

#### Wet Chemistry By Method SM 2510B-2011

Matrix: AQ

Batch ID:

GP14799

Sample(s) D68315-1DUP were used as the QC samples for the Specific Conductivity analysis.

### Wet Chemistry By Method SM 2540C-2011

Matrix: AQ

Batch ID:

GN29012

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D68368-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.

## Wet Chemistry By Method SM4500HB+-2011/9040C

Matrix: AQ

Batch ID:

GN28993

■ D68414-1,-2 for pH: Analysis performed past the required 15 minutes from collection time/holding time.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Project:

Summary of Hits
Job Number: D68414
Account: K.P. Kauffman Company, Inc. Wattenberg Source Water

Collected:

03/10/15

Lab Sample ID Clien Analyte	t Sample ID	Result/ Qual	RL	MDL	Units	Method
D68414-1 JACK	C NOEL					
Specific Gravity by Hyo pH <sup>a</sup>	lrometer	0.70260 7.41			su	ASTM D287 SM4500HB+-2011/9040C
D68414-2 OCO	MD					
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hyo pH <sup>a</sup>	lrometer	19000 28400 1.0151 6.54	10		mg/l umhos/cm su	SM 2540C-2011 SM 2510B-2011 ASTM D287 SM4500HB+-2011/9040C

<sup>(</sup>a) Analysis performed past the required 15 minutes from collection time/holding time.



Sample Results	
Report of Analysis	
	 5).



## Report of Analysis

Client Sample ID: JACK C NOEL Lab Sample ID:

Matrix:

D68414-1 AQ - Water Date Sampled:

03/10/15

Date Received: 03/10/15 Percent Solids: n/a

Project:

Wattenberg Source Water

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydrome pH <sup>a</sup>	<10 <1.0 te 0.70260 7.41	10 1.0	mg/l umhos/cm su	1 1 1	03/12/15 03/11/15 03/13/15 03/11/15 09:45	JF JD MM TB	SM 2540C-2011 SM 2510B-2011 ASTM D287 SM4500HB+-2011/9040C

Client Sample ID: OCOMD Lab Sample ID:

D68414-2 AQ - Water Date Sampled: 03/10/15 Date Received: 03/10/15

Project:

Matrix:

Wattenberg Source Water

Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
Solids, Total Dissolved Specific Conductivity Specific Gravity by Hydromete pH <sup>a</sup>	19000 28400 2 1.0151 6.54	10 1.0	mg/l umhos/cm su	1 1 1	03/12/15 03/11/15 03/13/15 03/11/15 09:45	JF JD MM TB	SM 2540C-2011 SM 2510B-2011 ASTM D287 SM4500HB+-2011/9040C



Custody Docume	ents and Other Forms
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1	ana Lara-Mesa staramesa@kok.com														Solids		vîty.				1			AIR - Air SOL - Other Solid
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	-825-4822 (s) Name(s)	Project Manager	· · · · · · · · · · · · · · · · · · ·		Attention:									33	Se Se		bud			1	1			EB-Equipment Blank RB- Rinse Blank
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D68414: Chain of Custody Page 1 of 2





Accutest Laboratories V:(303) 425-6021

## **Accutest Laboratories Sample Receipt Summary**

1. Custody Seals Present:	Accutest Job Number: D684	14 Client:	K.P. KAUFFMAN COMPAN	NY,INC Project: WATTENBERG	WATER SOURCE
Cooler Security Y or N	Date / Time Received: 3/10/2	2015 1:39:00 PM	Delivery Method:	Airbill #'s: HD	
1. Custody Seals Present:	Cooler Temps (Initial/Adjusted	d): #1; (41.3/41.3);			
1. Trip Blank present / cooler: 2. Trip Blank listed on COC: 3. Samples preserved properly: 4. VOCs headspace free: 4. Compositing instructions clear: 5. Filtering instructions clear:  2. Samples preserved for unspecified tests 4. Compositing instructions clear: 5. Filtering instructions clear:	1. Custody Seals Present: 2. Custody Seals Intact:  Cooler Temperature 1. Temp criteria achieved: 2. Cooler temp verification: 3. Cooler media:	3. COC Price 4. Smpl Dates  Y or N  IR Gun: Ice (Bag)	esent: 🔽 🗀	1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree:  Sample Integrity - Condition  1. Sample recvd within HT: 2. All containers accounted for:	☑ □ ☑ □ ☑ □ ✓ or N ☑ □ ☑ □
4. VOCs headspace free:				Analysis requested is clear:	☑ □
5.1 Horning included on the country					
	Comments			5. Filtering instructions clear:	

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D68414: Chain of Custody

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ACCUTEST:
D68414

LABORATORIES



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**QC** Data Summaries

## Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries



## METHOD BLANK AND SPIKE RESULTS SUMMARY GENERAL CHEMISTRY

# Login Number: D68414 Account: KPKCOD - K.P. Kauffman Company, Inc. Project: Wattenberg Source Water

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved	GN29012	10	0.0	mg/l	400	399	99.8	90-110%
Specific Conductivity	GP14799/GN28995			umhos/cm	99.7	109	109.0	90-110%
На	GN28993			su	8.00	7.97	99.6	99.1-100

Associated Samples: Batch GN28993: D68414-1, D68414-2 Batch GN29012: D68414-1, D68414-2 Batch GP14799: D68414-1, D68414-2 (\*) Outside of QC limits



## DUPLICATE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: D68414 Account: KPKCOD - K.P. Kauffman Company, Inc. Project: Wattenberg Source Water

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN29012	D68368-1	mg/l	400	413	3.2	0-20%
Specific Conductivity	GP14799/GN28995	D68315-1	umhos/cm	4540	4580	0.9	0-20%

Associated Samples: Batch GN29012: D68414-1, D68414-2 Batch GP14799: D68414-1, D68414-2 (\*) Outside of QC limits



March 17, 2015

Linda Bowling
Technical Enforcement Program – UIC
U.S. Environmental Protection Agency Region 8
1595 Wynkoop Street, Mail code 8ENF-W
Denver, CO 80202-1129

RE: Wattenberg Disposal, LLC

Class I Non-Hazardous Waste Disposal Well Permit No. CO10938-02115

Dear Ms. Bowling;

Wattenberg Disposal, LLC is submitting water source analyses from facilities with new formation Class II fluids that will be disposed of at the Suckla Farms #1 disposal well. These facilities include:

 Facility
 Location

 1) Jack C Noel
 NENW S18 T4N R65W

2) Ocoma NENW S33 T4N R67W

The two (2) facilities listed above are exploration and production well site tank batteries owned and operated by K.P. Kauffman Company, Inc. The waste fluid being disposed of is produced water, which has been separated from the comingled liquid stream produced from each facility's associated wellhead(s).

Pursuant to Permit No. CO10938-02115 Section 5.a.(ii), Wattenberg Disposal, LLC requests approval for disposal of fluids from the new source waters listed above. A water analysis has been attached for each facility which consists of total dissolved solids, pH, specific gravity, and specific conductivity.

The analysis of the Jack C Noel water sampled indicates a lower than typical specific gravity expected for produced water. The lower specific gravity reading is attributed to the high sulfur content in the water sample, which created difficulties with the hydrometer measurement.

If you have any questions or comments, please contact me at (303) 825-4822 or at slaramesa@kpk.com.

Sincerely, Wattenberg Disposal, LLC

Susana Lara-Mesa Vice President of Engineering

Enclosures: New Source Waters Analyses

cc: KPK files